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REPORT

NMTBA
The Association For Manufacturing Technology

Direct Dial: (703) 827-5260

STATISTICAL

No. 38-91 April 3, 1991

U.S. FOREIGN TRADE IN MANUFACTURING TECHNOLOGY – JANUARY 1991

(Values in Millions of U.S. Dollars)

	Jan. 1991	Dec. 1990	Average Oct.-Dec.	Year to Date '91	Year to Date '90	% Change YTD '90-'91
METAL CUTTING MACHINE TOOLS						
Exports	$ 43.6	$ 49.3	$ 48.7	$ 43.6	$ 61.2	(28.8%)
Imports	$138.6	$132.4	$134.1	$138.6	$173.5	(20.1%)
Balance	($ 95.0)	($ 83.1)	($ 85.4)	($ 95.0)	($112.3)	(15.4%)
METAL FORMING MACHINE TOOLS						
Exports	$ 32.4	$ 43.0	$ 39.4	$ 32.4	$ 41.8	(22.5%)
Imports	$ 50.3	$ 55.7	$ 53.6	$ 50.3	$ 42.6	18.1%
Balance	($17.9)	($ 12.7)	($ 14.2)	($ 17.9)	($ 0.8)	NM
MACHINE TOOL TOTAL						
Exports	$ 76.0	$ 92.3	$ 88.1	$ 76.0	$103.1	(26.3%)
Imports	$188.9	$188.1	$187.7	$188.9	$216.1	(12.6%)
Balance	($112.9)	($ 95.8)	($ 99.6)	($112.9)	($113.0)	0.0%
NUMERICALLY CONTROLLED MACHINE TOOLS						
Exports	$ 21.0	$ 32.1	$ 29.3	$ 21.0	$ 36.0	(41.7%)
Imports	$ 92.2	$ 79.2	$ 87.7	$ 92.2	$119.0	(22.5%)
Balance	($ 71.2)	($ 47.1)	($ 58.4)	($ 71.2)	($ 83.0)	(14.2%)
OTHER MANUFACTURING TECHNOLOGY						
Exports	$141.5	$141.4	$151.7	$141.5	$149.5	(5.4%)
Imports	$182.5	$178.9	$166.0	$182.5	$192.0	(4.9%)
Balance	($ 41.0)	($ 37.5)	($ 14.3)	($ 41.0)	($ 42.5)	(3.5%)

Note: Numerically controlled machine tools is a subgroup of the machine tool total. NM = not meaningful; ( ) denotes negative. Individual items may not add up to totals due to rounding.

- U.S. machine tool exports were $76.0 million in January 1991, down 18% from December and down 26% from the previous year. Exports in January are usually lower than the annual monthly average.

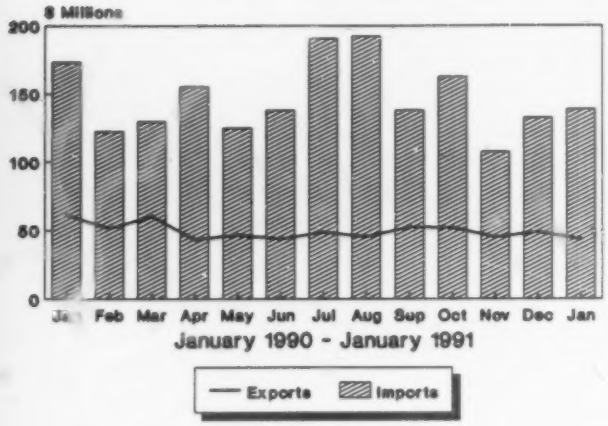
- Machine tool imports of $188.9 million in January were up slightly from December but down 13% from the previous year.

- Exports to Germany in January totalled $15.0 million to lead all countries. Total exports to Germany in 1990 were up 48% over 1989 at $91.3 million.

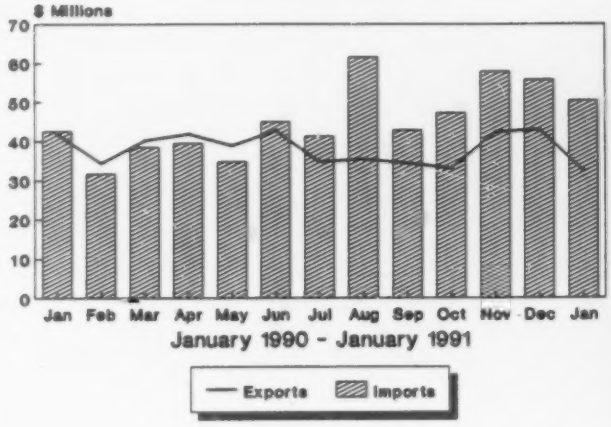
7901 WESTPARK DRIVE, McLEAN, VIRGINIA 22102-4269 / PHONE (703) 893-2900 / TLX: 353819 / FAX (703)893-1151

U.S. MONTHLY TRADE IN MACHINE TOOLS

METAL CUTTING



METAL FORMING



METAL CUTTING MACHINE TOOLS

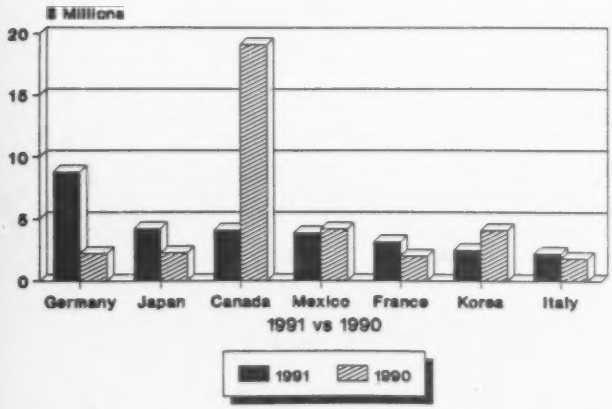
Exports

- Exports of metal cutting machines were $43.6 million in January, down 10% from the average for the previous three months.

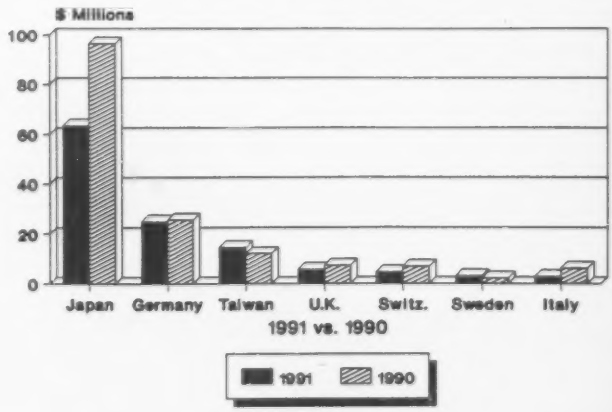
- Metal cutting exports to Germany reached $8.8 million, more than double the level of the next highest country. The reason: three NC multi-station transfer machines valued near $5.7 million.

- Exports of machining centers in January were $2.3 million, the lowest monthly total since June 1989. Exports of grinding machines were $5.9 million, down from $15.2 million in January 1990.

LEADING U.S. EXPORT MARKETS
METAL CUTTING MACHINES



LEADING U.S. IMPORT SOURCES
METAL CUTTING MACHINES



Imports

• Imports of metal cutting machines in January of $138.6 million were slightly above the October-December average of $134.1 million.

• Imports from Japan were $63.5 million, down from $96.4 million in January 1990. Imports from Germany of $25.0 million were about equal to the previous month and the year earlier figures.

• Imports of NC horizontal lathes in January of $17.5 million were half the January 1990 total but up from $13.1 million in December.

METAL FORMING MACHINE TOOLS

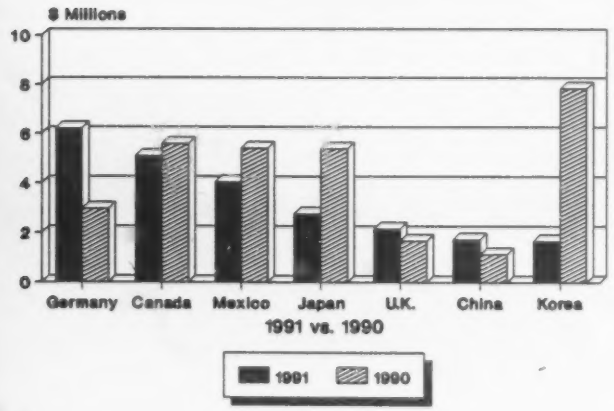
Exports

• Exports of metal forming machines in January fell to $32.4 million from $41.8 million in January 1990 and an average of $39.4 million the last three months of 1990.

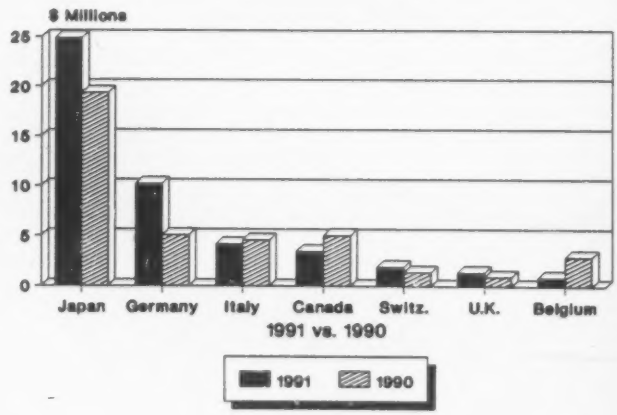
• Germany was the largest export market at $6.2 million, followed by Canada ($5.1 million), Mexico ($4.1 million) and Japan ($2.7 million).

• Exports of presses in January were 293 units valued at $7.4 million. The comparable figures for December 1990: 132 units at $9.1 million.

LEADING U.S. EXPORT MARKETS
METAL FORMING MACHINES



LEADING U.S. IMPORT SOURCES
METAL FORMING MACHINES



Imports

• Metal forming machine tool imports in January were $50.3 million. More than 20% of the total - slightly more than $10 million -- was accounted for by a single non-NC mechanical transfer press from Japan.

• Japan accounted for almost 50% of total metal forming imports in January at $24.9 million, followed by Germany ($10.2 million), Italy ($4.2 million), Canada ($3.5 million) and Switzerland ($1.9 million).

• Imports of forging machines fell to $5.0 million in January 1991, down from $7.2 million in December and $8.5 million in January 1990. The leading sources in January 1991: Germany ($1.5 million), Italy ($1.3 million) and Japan ($1.1 million).

OTHER MANUFACTURING TECHNOLOGY

Exports

• U.S. exports of machine tool parts and accessories reached $57.1 million in January. The top markets: Canada ($11.0 million), Germany ($7.6 million), the United Kingdom ($4.8 million) and Japan ($4.6 million).

• Exports of blow molding machines totalled 75 units valued at $5.1 million in January, both far higher than usual. The top markets: France (3 units, $1.5 million), the United Kingdom (3 units, $1.3 million), Mexico (21 units, $0.7 million), South Korea (21 units, $0.4 million) and Thailand (11 units, $0.2 million).

Imports

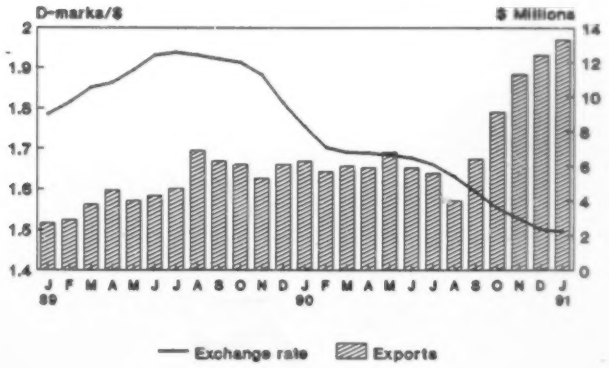
• Imports of industrial robots reached $8.9 million in January. Japan ($6.3 million) was the dominant supplier. Imports of industrial robot parts were $15.1 million. Again, Japan was the dominant supplier at $7.5 million.

• Imports of extruders totalled $9.6 million, while imports of injection molding machines were $28.9 million in January 1991. Comparable figures for January 1990: $6.7 million and $29.4 million, respectively.

MONTHLY FOCUS

The chart below details three-month moving averages for U.S. machine tool exports to Germany and the D-mark/$ exchange rate from January 1989 through January 1991. The export figure has risen five straight months, reaching a monthly average of $13.3 million for the period November 1990-January 1991. The sharply higher exports seem to coincide (after an appropriate lag) with the sharp depreciation of the dollar against the D-mark beginning in late 1989. While exchange rates certainly affect trade, it's too early to determine the extent to which the higher exports are related to the dollar's fall, or if the period of high exports will last as long as the dollar's slide did. In recent weeks the dollar has risen sharply against the Germany currency, in late March exceeding 1.7 marks to the dollar.

U.S. Machine Tool Exports to Germany
vs. D-mark/$ Exchange Rate, Jan. 1989-91
(Three Month Moving Averages)



1991 EXPORTS

METAL CUTTING

COUNTRY	JAN '91	JAN '90	%CHANGE	DEC '90	%CHANGE
Germany	$8,827,813	$ 2,225,342	296.69%	$10,923,316	-19.18%
Japan	4,230,011	2,279,351	85.58	2,419,240	74.85
Canada	4,079,654	19,130,487	-78.67	7,652,871	-46.69
Mexico	3,855,967	4,163,500	-7.39	4,851,748	-20.52
France	3,136,337	1,999,186	56.88	425,252	637.52
Korea	2,471,187	4,103,519	-39.78	3,931,153	-37.14
Italy	2,218,427	1,825,244	21.54	1,942,326	14.21
India	1,797,948	3,542,508	-49.25	1,263,434	42.31
China	1,355,450	127,620	962.10	1,345,031	0.77
U.K.	1,291,592	7,091,975	-81.79	3,139,208	-58.86
Australia	998,164	2,222,694	-55.09	605,102	64.96
Belgium	976,425	1,368,481	-28.65	1,516,194	-35.60
USSR	923,067	0	NA	48,566	1,800.64
Venezuela	748,551	4,077	18,260.34	382,714	95.59
Netherlands	636,422	404,565	57.31	188,400	237.80
Taiwan	502,989	1,774,960	-71.66	352,464	42.71
Singapore	365,392	583,277	-37.36	559,322	-34.67
Brazil	347,227	3,521,261	-90.14	1,967,482	-82.35
Spain	187,092	424,524	-55.93	264,729	-29.33
Thailand	167,845	144,661	16.03	98,392	70.59
Switzerland	131,021	278,370	-52.93	473,094	-72.31
Malaysia	39,207	211,781	-81.49	153,842	-74.51
Indonesia	15,125	80,519	-81.22	98,045	-84.57
Austria	10,058	6,037	66.61	242,391	-95.85

METAL FORMING

COUNTRY	JAN '91	JAN '90	%CHANGE	DEC '90	%CHANGE
Germany	$6,206,872	$2,957,432	109.87%	$4,242,836	46.29%
Canada	5,087,662	5,577,252	-8.78	4,286,217	18.70
Mexico	4,056,278	5,406,892	-24.98	4,921,040	-17.57
Japan	2,746,654	5,388,718	-49.03	5,585,156	-50.82
U.K.	2,149,158	1,665,510	29.04	1,959,190	9.70
China	1,724,628	1,140,331	51.24	57,692	2,889.37
Korea	1,665,256	7,834,296	-78.74	1,662,738	0.15
Italy	1,216,397	1,215,381	0.08	978,735	24.28
Brazil	907,783	64,729	1,302.44	952,474	-4.69
France	783,532	468,006	67.42	1,115,918	-29.79
Singapore	388,168	212,746	82.46	1,062,654	-63.47
Switzerland	365,203	0	NA	955,425	-61.78
Indonesia	358,560	6,965	5,048.03	183,753	95.13
India	282,559	828,485	-65.89	147,137	92.04
Malaysia	182,895	58,564	212.30	137,093	33.41
Netherlands	169,421	1,045,192	-83.79	957,957	-82.31
Australia	164,091	215,755	-23.95	1,230,709	-86.67
Thailand	155,628	284,000	-45.20	2,003,492	-92.23
Venezuela	90,265	168,125	-46.31	532,467	-83.05
Belgium	78,918	19,639	301.84	158,587	-50.24
Spain	18,813	284,142	-93.38	282,191	-93.33
Taiwan	6,970	959,646	-99.27	129,660	-94.62
USSR	0	0	NA	0	NA
Austria	0	566,000	-100.00	44,031	-100.00

TOTAL METAL CUTTING AND METAL FORMING

COUNTRY	JAN '91	JAN '90	%CHANGE	DEC '90	%CHANGE
Germany	$15,034,685	$ 5,182,774	190.09%	$15,166,152	-0.87%
Canada	9,317,673	7,856,603	18.60	6,705,457	38.96
Mexico	8,135,932	24,537,379	-66.84	12,573,911	-35.30
Japan	6,602,621	9,552,218	-30.88	10,436,904	-36.74
Korea	5,285,495	3,664,696	44.23	2,384,442	121.67
France	4,195,815	5,243,850	-19.99	3,988,845	5.19
U.K.	3,883,683	9,659,540	-59.79	3,605,064	7.73
Italy	3,014,345	4,757,889	-36.65	2,242,169	34.44
China	2,263,233	192,349	1,076.63	2,297,505	-1.49
India	2,075,124	7,559,981	-72.55	4,255,126	-51.23
Brazil	1,386,332	2,435,440	-43.08	1,667,756	-16.87
Australia	1,341,628	1,368,481	-1.96	2,471,619	-45.72
Belgium	1,281,627	6,965	18,300.96	232,319	451.67
USSR	1,031,110	832,562	23.85	529,851	94.60
Venezuela	819,317	463,129	76.91	325,493	151.72
Netherlands	672,410	2,820,152	-76.16	1,310,421	-48.69
Singapore	529,483	799,032	-33.73	1,790,031	-70.42
Taiwan	502,855	3,805,261	-86.79	3,970,974	-87.34
Switzerland	277,357	592,649	-53.20	797,196	-65.21
Indonesia	246,763	164,300	50.19	256,979	-3.98
Thailand	149,834	562,512	-73.36	755,285	-80.16
Malaysia	46,177	1,171,427	-96.06	283,502	-83.71
Spain	15,125	80,519	-81.22	98,045	-84.57
Austria	10,058	572,037	-98.24	286,422	-96.49

1991 IMPORTS

METAL CUTTING

COUNTRY	JAN '91	JAN '90	%CHANGE	DEC '90	%CHANGE
Japan	$63,490,334	$96,409,162	-34.14%	$57,201,645	10.99%
Germany	25,045,900	25,716,456	-2.61	25,911,876	-3.34
Taiwan	14,670,300	12,024,656	22.00	9,290,443	57.91
U.K.	5,685,024	7,301,671	-22.14	9,245,378	-38.51
Switzerland	4,696,812	6,922,891	-32.16	11,168,038	-57.94
Sweden	3,064,111	2,261,885	35.47	813,101	276.84
Italy	2,765,832	6,114,586	-54.77	4,211,825	-34.33
France	2,550,411	1,164,643	118.99	1,385,578	84.07
Spain	2,455,208	2,003,220	22.56	1,236,388	98.58
Korea	1,297,883	2,236,678	-41.97	1,056,552	22.84
Singapore	1,114,025	2,703,581	-58.79	957,092	16.40
Canada	1,058,518	1,016,497	4.13	1,575,908	-32.83
Brazil	976,416	972,426	0.41	427,190	128.57
Belgium	768,044	183,202	319.23	15,138	4,973.62

METAL FORMING

COUNTRY	JAN '91	JAN '90	%CHANGE	DEC '90	%CHANGE
Japan	$24,880,673	$19,339,002	28.66%	$25,029,639	-0.60%
Germany	10,206,658	5,060,547	101.69	8,992,753	13.50
Italy	4,185,027	4,570,942	-8.44	3,907,608	7.10
Canada	3,451,169	5,055,174	-31.73	5,708,660	-39.55
Switzerland	1,946,715	1,354,674	43.70	2,801,632	-30.51
U.K.	1,354,132	909,509	48.89	3,752,869	-63.92
Belgium	853,913	2,911,568	-70.67	749,165	13.98
Taiwan	643,687	755,929	-14.85	508,435	26.60
Spain	579,193	177,194	226.87	374,197	54.78
Sweden	382,640	1,167,365	-67.22	1,448,440	-73.58
France	277,255	168,658	64.39	282,990	-2.03
Brazil	38,940	0	NA	2,500	1,457.60
Korea	0	0	NA	104,969	-100.00
Singapore	0	0	NA	311,286	-100.00

TOTAL METAL CUTTING AND METAL FORMING

COUNTRY	JAN '91	JAN '90	%CHANGE	DEC '90	%CHANGE
Japan	$88,371,007	$115,748,164	-23.65%	$82,231,284	7.47%
Germany	35,252,558	30,777,003	14.54	34,904,629	1.00
Taiwan	18,855,327	16,595,598	13.62	13,198,051	42.86
U.K.	9,136,193	12,356,845	-26.06	14,954,038	-38.90
Italy	6,643,527	8,277,565	-19.74	13,969,670	-52.44
Switzerland	4,418,243	3,171,394	39.32	4,565,970	-3.24
Canada	3,619,745	9,026,154	-59.90	4,960,990	-27.04
Sweden	3,194,098	1,920,572	66.31	1,894,013	68.64
Spain	3,034,401	2,180,414	39.17	1,610,585	88.40
France	1,680,523	3,404,043	-50.63	2,504,992	-32.91
Belgium	1,391,280	2,872,239	-51.56	1,240,082	12.19
Korea	1,097,458	1,016,497	7.96	1,578,408	-30.47
Singapore	976,416	972,426	0.41	532,159	83.48
Brazil	768,044	183,202	319.23	326,424	135.29

1991 U.S. EXPORTS

BY PRODUCT GROUPS

PRODUCT TYPES	JANUARY 1991 Units	JANUARY 1991 Value	JANUARY 1990 Units	JANUARY 1990 Value	DECEMBER 1990 Units	DECEMBER 1990 Value
Used & Rebuilt & Under $2,500	5,350	13,231,937	2,899	12,224,015	5,617	9,821,987
Boring Machines	8	572,189	13	958,297	7	370,692
Drilling Machines	104	2,125,292	110	2,255,419	44	929,408
Gear Cutting Machines	14	7,378,919	41	5,554,867	24	6,435,136
Grinding Machines	244	5,937,543	271	15,211,730	391	11,084,336
Horizontal Lathes NC	15	2,388,500	43	4,863,833	29	3,450,520
Vertical Lathes NC	1	161,310	5	1,223,137	8	1,097,280
Lathes Non-NC	37	817,093	58	1,113,041	89	1,217,150
Milling Machines	21	1,285,651	48	3,596,641	37	987,344
Machining Centers	18	2,251,834	65	7,526,957	21	3,371,119
Station Type Machines	7	6,763,963	10	5,374,341	11	9,495,480
Other Metal Cutting	223	7,078,662	314	7,165,369	284	6,641,302
Punching & Shearing Machines	108	4,513,331	107	4,427,453	179	5,251,720
Bending & Forming Machines	116	4,251,882	137	5,902,352	177	8,308,327
Presses	293	7,418,063	259	11,682,624	132	9,144,740
Forging Machines	11	2,746,151	26	5,015,295	25	7,031,889
Other Metal Forming	231	7,030,224	265	8,974,698	241	7,635,732
TOTAL	6,801	75,952,544	4,671	103,070,069	7,316	92,274,162

PRODUCT TYPES	% CHANGE JAN'90 - JAN'91 Units	% CHANGE JAN'90 - JAN'91 Value	% CHANGE DEC'90 - JAN'91 Units	% CHANGE DEC'90 - JAN'91 Value
Used & Rebuilt & Under $2,500	84.55	8.25	-4.75	34.72
Boring Machines	-38.46	-40.29	14.29	54.36
Drilling Machines	-5.45	-5.77	136.36	128.67
Gear Cutting Machines	-65.85	32.84	-41.67	14.67
Grinding Machines	-9.96	-60.97	-37.60	-46.43
Horizontal Lathes NC	-65.12	-50.89	-48.28	-30.78
Vertical Lathes NC	-80.00	-86.81	-87.50	-85.30
Lathes Non-NC	-36.21	-26.59	-58.43	-32.87
Milling Machines	-56.25	-64.25	-43.24	30.21
Machining Centers	-72.31	-70.08	-14.29	-33.20
Station Type Machines	-30.00	25.86	-36.36	-28.77
Other Metal Cutting	-28.98	-1.21	-21.48	6.59
Punching & Shearing Machines	0.93	1.94	-39.66	-14.06
Bending & Forming Machines	-15.33	-27.96	-34.46	-48.82
Presses	13.13	-36.50	121.97	-18.88
Forging Machines	-57.69	-45.24	-56.00	-60.95
Other Metal Forming	-12.83	-21.67	-4.15	-7.93
TOTAL	45.60	-26.31	-7.04	-17.69

1991 U.S. IMPORTS

BY PRODUCT GROUPS

PRODUCT TYPES	JANUARY 1991 Units	JANUARY 1991 Value	JANUARY 1990 Units	JANUARY 1990 Value	DECEMBER 1990 Units	DECEMBER 1990 Value
Used & Rebuilt & Under $2,500	71,667	13,094,991	80,165	15,101,348	81,837	15,246,777
Boring Machines	75	3,212,626	40	2,511,474	54	4,190,094
Drilling Machines	136	5,284,960	187	5,976,518	115	1,602,810
Gear Cutting Machines	34	7,247,022	37	5,386,214	53	6,613,058
Grinding Machines	662	23,141,603	722	28,410,149	626	34,357,642
Horizontal Lathes NC	158	17,509,455	342	34,310,797	114	13,105,549
Vertical Lathes NC	9	1,367,349	23	2,826,480	4	419,200
Lathes Non-NC	722	8,815,703	609	9,691,329	724	12,100,861
Milling Machines	449	12,771,541	450	9,477,437	357	3,618,186
Machining Centers	293	33,595,255	368	44,495,101	214	29,511,442
Station Type Machines	14	4,189,738	16	4,428,004	11	2,388,079
Other Metal Cutting	448	11,368,644	543	14,026,009	352	14,550,273
Punching & Shearing Machines	67	5,697,766	110	5,701,791	81	3,226,303
Bending & Forming Machines	189	6,557,096	206	7,285,979	135	6,615,138
Presses	72	16,236,188	339	7,092,434	171	19,020,684
Forging Machines	59	5,028,586	82	8,532,715	80	7,190,174
Other Metal Forming	286	13,786,011	289	10,864,319	267	14,347,226
TOTAL	75,340	188,904,534	84,528	216,118,098	85,195	188,103,496

PRODUCT TYPES	% CHANGE JAN'90 - JAN'91 Units	% CHANGE JAN'90 - JAN'91 Value	% CHANGE DEC'90 - JAN'91 Units	% CHANGE DEC'90 - JAN'91 Value
Used & Rebuilt & Under $2,500	-10.60	-13.29	-12.43	-14.11
Boring Machines	87.50	27.92	38.89	-23.33
Drilling Machines	-27.27	-11.57	18.26	229.73
Gear Cutting Machines	-8.11	34.55	-35.85	9.59
Grinding Machines	-8.31	-18.54	5.75	-32.64
Horizontal Lathes NC	-53.80	-48.97	38.60	33.60
Vertical Lathes NC	-60.87	-51.62	125.00	226.18
Lathes Non-NC	18.56	-9.04	-0.28	-27.15
Milling Machines	-0.22	34.76	25.77	252.98
Machining Centers	-20.38	-24.50	36.92	13.84
Station Type Machines	-12.50	-5.38	27.27	75.44
Other Metal Cutting	-17.50	-18.95	27.27	-21.87
Punching & Shearing Machines	-39.09	-0.07	-17.28	76.60
Bending & Forming Machines	-8.25	-10.00	40.00	-0.88
Presses	-78.76	128.92	-57.89	-14.64
Forging Machines	-28.05	-41.07	-26.25	-30.06
Other Metal Forming	-1.04	26.89	7.12	-3.91
TOTAL	-10.87	-12.59	-11.57	0.43

U.S. EXPORTS

Metal Cutting Machine Tools - January 91

RELEASED: April 3, 1991

		TOTAL YTD		TOTAL MO.	
		UNITS	$000	UNITS	$000
8456300000	Electro-discharge machines	8	499	8	499
8457100015	Vert. mach. ctrs., ATC, Y-axis travel not over 660mm (26")	5	771	5	771
100025	Vert. mach. ctrs., ATC, Y-axis travel over 660mm (26")	0	0	0	0
100035	Horizontal machining centers, ATC	2	680	2	680
100045	Machining centers, n.e.c.	11	801	11	801
200010	Unit construction mach. (single station transfer), NC	2	474	2	474
200090	Unit construction mach. (single station transfer), non-NC	1	585	1	585
300010	Multi-station transfer machines, NC	3	5667	3	5667
300090	Multi-station transfer machines, non-NC	0	0	0	0
8458110010	Horizontal lathes, multiple spindle, NC	5	1175	5	1175
110030	Horiz. lathes, power rating under 18.65 kW (25 HP), NC	5	457	5	457
110050	Horiz. lathes, power rating 18.65-37.3 kW (25-50 HP), NC	4	665	4	665
110090	Horiz. lathes, power rating over 37.3 kW (50 HP), NC	1	92	1	92
190030	Horizontal engine or toolroom lathes, non-NC	3	22	3	22
190050	Automatic bar and/or chucking mach., single spindle, non-NC	0	0	0	0
190070	Automatic bar and/or chucking mach., mult. spindle, non-NC	0	0	0	0
190090	Horizontal lathes, n.e.c., non-NC	24	423	24	423
911060	Vertical turret lathes, multiple spindle, NC	0	0	0	0
911080	Vertical turret lathes, n.e.c., NC	1	161	1	161
915050	Vertical lathes, excl. VTL's, multiple spindle, NC	0	0	0	0
915070	Vertical lathes, excluding VTL's, n.e.c., NC	0	0	0	0
991050	Vertical turret lathes, non-NC	7	108	7	108
995090	Vertical lathes, n.e.c., excl. VTL's, non-NC	3	264	3	264
8459100000	Way-type unit head machines	1	38	1	38
210080	Other drilling machines, NC	17	1655	17	1655
290040	Drilling machines, multiple spindle, non-NC	0	0	0	0
290050	Drilling machines, radial, non-NC	2	16	2	16
290070	Drilling, upright, ex. sensitive, turret & deep hole, non-NC	2	8	2	8
290090	Drilling machines, n.e.c., non-NC	83	447	83	447
310010	Boring-milling mach., horiz. spind., table, excl. planer, NC	0	0	0	0
310040	Boring-milling mach., horiz. spindle, n.e.c., NC	1	130	1	130
310070	Boring-milling machines, n.e.c., NC	0	0	0	0
390040	Boring-milling mach., horiz. spindle, n.e.c., non-NC	1	33	1	33
390050	Boring-milling mach., excl. horiz. spindle, n.e.c., non-NC	3	133	3	133
400040	Boring machines, vertical, NC	0	0	0	0
400050	Boring machines, vertical, non-NC	0	0	0	0
400070	Boring machines, n.e.c., NC	0	0	0	0
400080	Boring machines, n.e.c., non-NC	3	276	3	276
510080	Milling machines, knee type, NC	1	480	1	480
590030	Milling machines, knee type, non-NC	10	605	10	605
610080	Milling machines, excluding knee type, n.e.c., NC	1	54	1	54
690050	Milling machines, profile, dup., or die sinking, non-NC	0	0	0	0
690070	Milling machines, bed type, non-NC	0	0	0	0
690090	Milling machines, n.e.c., non-NC	9	147	9	147
700020	Threading or tapping machines, n.e.c., NC	8	192	8	192
700080	Threading or tapping machines, n.e.c., non-NC	18	871	18	871
8460110080	Flat surface grinding machines, NC	1	27	1	27
190010	Flat surface grinding mach., recip.-table type, non-NC	11	128	11	128
190050	Flat surface grinding machines, n.e.c., non-NC	3	380	3	380
210080	Grinding mach., of an accuracy at least 0.01mm, n.e.c., NC	4	1124	4	1124
290010	Grinding mach., external cylindrical, (incl. univ.), non-NC	2	853	2	853
290030	Grinding machines, internal cylindrical, non-NC	0	0	0	0
290050	Grinding mach., of accuracy at least 0.01mm, n.e.c., non-NC	38	1681	38	1681
310080	Sharpening machines (tool & cutter grinding), NC	3	78	3	78
390050	Sharpening machines (tool or cutter grinding), non-NC	79	591	79	591
400060	Honing or lapping machines, NC	0	0	0	0
400080	Honing or lapping machines, non-NC	25	352	25	352
900060	Grinding, honing, polishing, & lapping mach., n.e.c., NC	0	0	0	0
900080	Grinding, honing, polishing, & lapping mach., n.e.c., non-NC	78	721	78	721
8461100060	Planing machines, NC	0	0	0	0
100080	Planing machines, non-NC	25	207	25	207
200010	Shaping or slotting machines, NC	1	109	1	109
200090	Shaping or slotting machines, non-NC	9	103	9	103
300060	Broaching machines, NC	0	0	0	0
300080	Broaching machines, non-NC	1	185	1	185
401050	Gear hobbers	5	787	5	787
401070	Gear shapers	0	0	0	0
401090	Gear cutting machines, n.e.c.	8	5736	8	5736
405060	Gear grinding or finishing machines	1	856	1	856
500050	Sawing or cutting-off machines, NC	8	537	8	537
500090	Sawing or cutting-off machines, non-NC	79	1044	79	1044
9000000001	Metal cutting machine tools, n.e.c.	66	3331	66	3331
9800000001	Used or rebuilt machine tools	398	4913	398	4913
9900000001	Machine tools valued at less than $3,025	3083	1913	3083	1913
	Cutting Total			4173	43587
	Y-T-D Cutting Total	4173	43587		
	NC Y-T-D Cutting Total*	113	16676		

Please see notes on last page of the metal forming section.

U.S. EXPORTS
Metal Cutting Machine Tools - January 91

	Australia		Austria		Belgium		Brazil		Canada	
	Units	$000	Units	$000	Units	$000	Units	$000	Units	$000
8456300000	0	0	0	0	0	0	0	0	1	101
8457100015	0	0	0	0	3	500	0	0	2	271
100025	0	0	0	0	0	0	0	0	0	0
100035	0	0	0	0	0	0	0	0	1	440
100045	0	0	0	0	0	0	0	0	3	209
200010	0	0	0	0	0	0	0	0	0	0
200090	0	0	0	0	0	0	0	0	0	0
300010	0	0	0	0	0	0	0	0	0	0
300090	0	0	0	0	0	0	0	0	0	0
8458110010	0	0	0	0	0	0	0	0	0	0
110030	0	0	0	0	2	189	0	40	0	0
110050	0	0	0	0	1	118	0	0	1	82
110090	0	0	0	0	0	0	0	0	1	92
190030	0	0	0	0	0	0	0	0	0	0
190050	0	0	0	0	0	0	0	0	0	0
190070	0	0	0	0	0	0	0	0	0	0
190090	0	0	0	0	0	0	0	0	1	8
911060	0	0	0	0	0	0	0	0	0	0
911080	0	0	0	0	0	0	0	0	0	0
915050	0	0	0	0	0	0	0	0	0	0
915070	0	0	0	0	0	0	0	0	0	0
991050	0	0	0	0	0	0	0	0	0	0
995090	0	0	0	0	0	0	0	0	1	68
8459100000	0	0	0	0	0	0	0	0	0	0
210080	0	0	0	0	0	0	0	0	0	0
290040	0	0	0	0	0	0	0	0	0	0
290050	1	10	0	0	0	0	0	0	1	6
290070	0	0	0	0	0	0	0	0	2	8
290090	0	0	0	0	0	0	1	61	12	74
310010	0	0	0	0	0	0	0	0	0	0
310040	0	0	0	0	0	0	0	0	0	0
310070	0	0	0	0	0	0	0	0	0	0
390040	0	0	0	0	0	0	0	0	0	0
390050	0	0	0	0	0	0	0	0	0	0
400040	0	0	0	0	0	0	0	0	0	0
400050	0	0	0	0	0	0	0	0	0	0
400070	0	0	0	0	0	0	0	0	0	0
400080	0	0	0	0	0	0	0	0	0	0
510080	0	0	0	0	0	0	0	0	1	480
590030	0	0	0	0	0	0	0	0	2	63
610080	0	0	0	0	0	0	0	0	0	0
690050	0	0	0	0	0	0	0	0	0	0
690070	0	0	0	0	0	0	0	0	0	0
690090	1	12	0	0	0	0	0	0	0	0
700020	0	0	0	0	1	24	0	0	0	0
700080	5	200	0	0	1	64	1	15	0	0
8460110080	0	0	0	0	0	0	0	0	0	0
190010	0	0	0	0	0	0	0	0	0	0
190050	0	0	0	0	0	0	0	0	1	62
210080	0	0	0	0	0	0	0	0	0	0
290010	0	0	0	0	0	0	0	0	0	0
290030	0	0	0	0	0	0	0	0	0	0
290050	0	0	0	0	0	0	1	220	2	47
310080	0	0	0	0	0	0	0	0	0	0
390050	0	0	0	0	0	0	0	0	13	159
400060	0	0	0	0	0	0	0	0	0	0
400080	5	57	0	0	0	0	0	0	2	18
900060	0	0	0	0	0	0	0	0	0	0
900080	0	0	0	0	3	35	0	0	17	151
8461100060	0	0	0	0	0	0	0	0	0	0
100080	0	0	0	0	0	0	0	0	0	0
200010	0	0	0	0	0	0	0	0	1	109
200090	0	0	0	0	0	0	0	0	1	9
300060	0	0	0	0	0	0	0	0	0	0
300080	0	0	0	0	0	0	0	0	0	0
401050	0	0	0	0	0	0	0	0	0	0
401070	0	0	0	0	0	0	0	0	0	0
401090	0	0	0	0	0	0	0	0	0	0
405060	0	0	0	0	0	0	0	0	0	0
500050	0	0	0	0	0	0	0	0	3	128
500090	0	0	0	0	0	0	0	0	36	433
9000000001	1	506	0	0	0	0	0	0	2	146
9800000001	5	170	1	5	2	14	0	0	58	650
9900000001	71	44	8	5	13	33	17	10	236	265
Month Tot	89	998	9	10	26	976	20	347	401	4080
Y-T-D Tot	89	998	9	10	26	976	20	347	401	4080
NC YTD Tot*	1	506	0	0	7	831	0	40	13	1811

Please see notes on last page of the metal forming section.

U.S. EXPORTS
Metal Cutting Machine Tools - January 91

	China		France		Germany **		India		Indonesia	
	Units	$000	Units	$000	Units	$000	Units	$000	Units	$000
8456300000	0	0	0	0	6	364	0	0	0	0
8457100015	0	0	0	0	0	0	0	0	0	0
100025	0	0	0	0	0	0	0	0	0	0
100035	0	0	0	0	0	0	0	0	0	0
100045	0	0	4	304	0	0	0	0	0	0
200010	0	0	0	0	0	0	0	0	0	0
200090	0	0	0	0	0	0	1	585	0	0
300010	0	0	0	0	3	5667	0	0	0	0
300090	0	0	0	0	0	0	0	0	0	0
8458110010	0	0	1	851	0	0	0	0	0	0
110030	0	0	0	0	0	0	0	0	0	0
110050	0	0	0	0	0	0	0	0	0	0
110090	0	0	0	0	0	0	0	0	0	0
190030	0	0	0	0	0	0	0	0	0	0
190050	0	0	0	0	0	0	0	0	0	0
190070	0	0	0	0	0	0	0	0	0	0
190090	0	0	0	0	2	21	0	0	0	0
911060	0	0	0	0	0	0	0	0	0	0
911080	0	0	0	0	0	0	0	0	0	0
915050	0	0	0	0	0	0	0	0	0	0
915070	0	0	0	0	0	0	0	0	0	0
991050	0	0	0	0	0	0	0	0	0	0
995090	0	0	0	0	0	0	0	0	0	0
8459100000	0	0	0	0	0	0	0	0	0	0
210080	0	0	0	0	8	776	0	0	0	0
290040	0	0	0	0	0	0	0	0	0	0
290050	0	0	0	0	0	0	0	0	0	0
290070	0	0	0	0	0	0	0	0	0	0
290090	0	0	0	0	0	0	63	285	0	0
310010	0	0	0	0	0	0	0	0	0	0
310040	0	0	0	0	0	0	0	0	0	0
310070	0	0	0	0	0	0	0	0	0	0
390040	0	0	0	0	0	0	0	0	0	0
390050	0	0	0	0	0	0	0	0	0	0
400040	0	0	0	0	0	0	0	0	0	0
400050	0	0	0	0	0	0	0	0	0	0
400070	0	0	0	0	0	0	0	0	0	0
400080	0	0	0	0	0	0	0	0	0	0
510080	0	0	0	0	0	0	0	0	0	0
590030	0	0	0	0	0	0	0	0	0	0
610080	0	0	0	0	0	0	0	0	0	0
690050	0	0	0	0	0	0	0	0	0	0
690070	0	0	0	0	0	0	0	0	0	0
690090	0	0	0	0	0	0	0	0	0	0
700020	6	144	0	0	0	0	0	0	0	0
700080	0	0	0	0	1	67	0	0	0	0
8460110080	0	0	0	0	0	0	0	0	0	0
190010	0	0	0	0	0	0	0	0	0	0
190050	1	87	0	0	0	0	0	0	0	0
210080	1	474	0	0	0	0	0	0	0	0
290010	0	0	2	853	0	0	0	0	0	0
290030	0	0	0	0	0	0	0	0	0	0
290050	0	0	0	0	13	450	0	0	0	0
310080	0	0	0	0	0	0	0	0	0	0
390050	1	5	0	0	16	108	13	83	0	0
400060	0	0	0	0	0	0	0	0	0	0
400080	1	20	5	65	0	0	0	0	0	0
900060	0	0	0	0	0	0	0	0	0	0
900080	1	5	2	17	3	36	0	0	0	0
8461100060	0	0	0	0	0	0	0	0	0	0
100080	0	0	0	0	2	11	0	0	0	0
200010	0	0	0	0	0	0	0	0	0	0
200090	0	0	0	0	0	0	0	0	0	0
300060	0	0	0	0	0	0	0	0	0	0
300080	0	0	1	185	0	0	0	0	0	0
401050	0	0	0	0	3	160	0	0	0	0
401070	0	0	0	0	0	0	0	0	0	0
401090	0	0	1	197	0	0	1	841	0	0
405060	0	0	0	0	0	0	0	0	0	0
500050	0	0	0	0	2	330	0	0	0	0
500090	0	0	0	0	1	9	0	0	0	0
9000000001	1	9	5	260	0	0	0	0	0	0
9800000001	15	611	22	333	37	780	0	0	1	15
9900000001	0	0	111	72	72	48	6	4	0	0
Month Tot	27	1355	154	3136	169	8828	84	1798	1	15
Y-T-D Tot	27	1355	154	3136	169	8828	84	1798	1	15
NC YTD Tot*	7	618	10	1414	13	6774	0	0	0	0

Please see notes on last page of the metal forming section.

U.S. EXPORTS
Metal Cutting Machine Tools - January 91

	Italy		Japan		Korea		Malaysia		Mexico	
	Units	$000	Units	$000	Units	$000	Units	$000	Units	$000
8456300000	0	0	0	0	0	0	0	0	1	35
8457100015	0	0	0	0	0	0	0	0	0	0
100025	0	0	0	0	0	0	0	0	0	0
100035	0	0	1	240	0	0	0	0	0	0
100045	1	35	0	0	0	0	0	0	2	175
200010	0	0	1	335	0	0	0	0	1	139
200090	0	0	0	0	0	0	0	0	0	0
300010	0	0	0	0	0	0	0	0	0	0
300090	0	0	0	0	0	0	0	0	0	0
8458110010	0	0	0	0	0	0	0	0	0	0
110030	0	0	0	0	0	0	0	0	0	0
110050	0	0	0	0	0	0	0	0	0	0
110090	0	0	0	0	0	0	0	0	0	0
190030	0	0	0	0	0	0	0	0	1	4
190050	0	0	0	0	0	0	0	0	0	0
190070	0	0	0	0	0	0	0	0	0	0
190090	0	0	0	0	0	0	0	0	7	242
911060	0	0	0	0	0	0	0	0	0	0
911080	0	0	0	0	0	0	0	0	1	161
915050	0	0	0	0	0	0	0	0	0	0
915070	0	0	0	0	0	0	0	0	0	0
991050	0	0	0	0	0	0	0	0	0	0
995090	0	0	0	0	0	0	0	0	2	196
8459100000	0	0	0	0	0	0	0	0	1	38
210080	0	0	6	617	0	0	0	0	2	209
290040	0	0	0	0	0	0	0	0	0	0
290050	0	0	0	0	0	0	0	0	0	0
290070	0	0	0	0	0	0	0	0	0	0
290090	0	0	1	3	0	0	0	0	4	15
310010	0	0	0	0	0	0	0	0	0	0
310040	0	0	0	0	0	0	0	0	1	130
310070	0	0	0	0	0	0	0	0	0	0
390040	0	0	0	0	1	33	0	0	0	0
390050	0	0	0	0	0	0	0	0	2	105
400040	0	0	0	0	0	0	0	0	0	0
400050	0	0	0	0	0	0	0	0	0	0
400070	0	0	0	0	0	0	0	0	0	0
400080	0	0	0	0	0	0	0	0	2	194
510080	0	0	0	0	0	0	0	0	0	0
590030	0	0	1	19	0	0	0	0	1	80
610080	0	0	0	0	0	0	0	0	1	54
690050	0	0	0	0	0	0	0	0	0	0
690070	0	0	0	0	0	0	0	0	0	0
690090	0	0	0	0	0	0	0	0	7	111
700020	0	0	0	0	0	0	0	0	0	0
700080	0	0	0	0	0	0	0	0	5	40
8460110080	0	0	0	0	0	0	0	0	0	0
190010	0	0	0	0	0	0	0	0	0	0
190050	0	0	1	231	0	0	0	0	0	0
210080	2	421	0	0	0	0	0	0	1	229
290010	0	0	0	0	0	0	0	0	0	0
290030	0	0	0	0	0	0	0	0	0	0
290050	0	0	2	159	0	0	0	0	5	54
310080	0	0	0	0	0	0	0	0	1	22
390050	0	0	33	221	0	0	1	4	0	0
400060	0	0	0	0	0	0	0	0	0	0
400080	4	57	2	91	0	0	0	0	0	0
900060	0	0	0	0	0	0	0	0	0	0
900080	1	5	4	40	9	107	0	0	18	114
8461100060	0	0	0	0	0	0	0	0	0	0
100080	0	0	0	0	2	55	0	0	0	0
200010	0	0	0	0	0	0	0	0	0	0
200090	0	0	0	0	0	0	0	0	2	28
300060	0	0	0	0	0	0	0	0	0	0
300080	0	0	0	0	0	0	0	0	0	0
401050	0	0	0	0	0	0	0	0	1	28
401070	0	0	0	0	0	0	0	0	0	0
401090	2	1377	1	541	1	850	0	0	0	0
405060	0	0	1	856	0	0	0	0	0	0
500050	0	0	0	0	0	0	0	0	0	0
500090	4	126	7	41	2	17	1	26	11	117
9000000001	1	7	22	571	2	1295	0	0	21	192
9800000001	22	160	5	19	0	0	1	10	91	904
9900000001	210	29	475	246	510	115	0	0	393	242
Month Tot	247	2218	563	4230	527	2471	3	39	585	3856
Y-T-D Tot	247	2218	563	4230	527	2471	3	39	585	3856
NC YTD Tot*	3	456	30	1763	0	0	0	0	11	1130

Please see notes on last page of the metal forming section.

U.S. EXPORTS
Metal Cutting Machine Tools - January 91

	Netherlands		Singapore		Spain		Switzerland		Taiwan	
	Units	$000	Units	$000	Units	$000	Units	$000	Units	$000
8456300000	0	0	0	0	0	0	0	0	0	0
8457100015	0	0	0	0	0	0	0	0	0	0
100025	0	0	0	0	0	0	0	0	0	0
100035	0	0	0	0	0	0	0	0	0	0
100045	0	0	0	0	0	0	0	0	0	0
200010	0	0	0	0	0	0	0	0	0	0
200090	0	0	0	0	0	0	0	0	0	0
300010	0	0	0	0	0	0	0	0	0	0
300090	0	0	0	0	0	0	0	0	0	0
8458110010	0	0	0	0	0	0	0	0	0	0
110030	0	0	0	0	0	0	0	0	0	0
110050	0	0	0	0	0	0	0	0	0	0
110090	0	0	0	0	0	0	0	0	0	0
190030	0	0	0	0	0	0	0	0	0	0
190050	0	0	0	0	0	0	0	0	0	0
190070	0	0	0	0	0	0	0	0	0	0
190090	0	0	0	0	0	0	0	0	0	0
911060	0	0	0	0	0	0	0	0	0	0
911080	0	0	0	0	0	0	0	0	0	0
915050	0	0	0	0	0	0	0	0	0	0
915070	0	0	0	0	0	0	0	0	0	0
991050	0	0	0	0	0	0	0	0	0	0
995090	0	0	0	0	0	0	0	0	0	0
8459100000	0	0	0	0	0	0	0	0	0	0
210080	1	53	0	0	0	0	0	0	0	0
290040	0	0	0	0	0	0	0	0	0	0
290050	0	0	0	0	0	0	0	0	0	0
290070	0	0	0	0	0	0	0	0	0	0
290090	0	0	0	0	0	0	0	0	0	0
310010	0	0	0	0	0	0	0	0	0	0
310040	0	0	0	0	0	0	0	0	0	0
310070	0	0	0	0	0	0	0	0	0	0
390040	0	0	0	0	0	0	0	0	0	0
390050	0	0	0	0	0	0	0	0	0	0
400040	0	0	0	0	0	0	0	0	0	0
400050	0	0	0	0	0	0	0	0	0	0
400070	0	0	0	0	0	0	0	0	0	0
400080	0	0	0	0	0	0	0	0	0	0
510080	0	0	0	0	0	0	0	0	0	0
590030	0	0	3	99	0	0	0	0	1	174
610080	0	0	0	0	0	0	0	0	0	0
690050	0	0	0	0	0	0	0	0	0	0
690070	0	0	0	0	0	0	0	0	0	0
690090	0	0	0	0	0	0	0	0	0	0
700020	0	0	0	0	0	0	0	0	0	0
700080	0	0	0	0	0	0	0	0	0	0
8460110080	0	0	0	0	1	27	0	0	0	0
190010	0	0	0	0	0	0	0	0	0	0
190050	0	0	0	0	0	0	0	0	0	0
210080	0	0	0	0	0	0	0	0	0	0
290010	0	0	0	0	0	0	0	0	0	0
290030	0	0	0	0	0	0	0	0	0	0
290050	6	543	0	0	0	0	0	0	0	0
310080	0	0	0	0	0	0	0	0	2	56
390050	0	0	1	7	0	0	0	0	0	0
400060	0	0	0	0	0	0	0	0	0	0
400080	0	0	0	0	0	0	0	0	0	0
900060	0	0	0	0	0	0	0	0	0	0
900080	2	10	0	0	0	0	2	15	1	33
8461100060	0	0	0	0	0	0	0	0	0	0
100080	0	0	1	4	0	0	0	0	0	0
200010	0	0	0	0	0	0	0	0	0	0
200090	0	0	0	0	0	0	0	0	0	0
300060	0	0	0	0	0	0	0	0	0	0
300080	0	0	0	0	0	0	0	0	0	0
401050	0	0	0	0	0	0	0	0	0	0
401070	0	0	0	0	0	0	0	0	0	0
401090	0	0	0	0	0	0	0	0	0	0
405060	0	0	0	0	0	0	0	0	0	0
500050	0	0	0	0	0	0	1	29	0	0
500090	0	0	0	0	0	0	0	0	2	29
9000000001	0	0	6	230	0	0	2	15	0	0
9800000001	1	7	1	5	23	160	2	11	17	145
9900000001	38	24	10	19	0	0	212	61	184	66
Month Tot	48	636	22	365	24	187	219	131	207	503
Y-T-D Tot	48	636	22	365	24	187	219	131	207	503
NC YTD Tot*	1	53	0	0	1	27	1	29	2	56

Please see notes on last page of the metal forming section.

U.S. EXPORTS
Metal Cutting Machine Tools - January 91

	Thailand		U.K.		USSR		Venezuela		All Other	
	Units	$000	Units	$000	Units	$000	Units	$000	Units	$000
8456300000	0	0	0	0	0	0	0	0	0	0
8457100015	0	0	0	0	0	0	0	0	0	0
100025	0	0	0	0	0	0	0	0	0	0
100035	0	0	0	0	0	0	0	0	0	0
100045	0	0	1	78	0	0	0	0	0	0
200010	0	0	0	0	0	0	0	0	0	0
200090	0	0	0	0	0	0	0	0	0	0
300010	0	0	0	0	0	0	0	0	0	0
300090	0	0	0	0	0	0	0	0	0	0
8458110010	0	0	0	0	4	324	0	0	0	0
110030	0	0	0	0	0	0	1	65	2	163
110050	0	0	2	465	0	0	0	0	0	0
110090	0	0	0	0	0	0	0	0	0	0
190030	0	0	2	19	0	0	0	0	0	0
190050	0	0	0	0	0	0	0	0	0	0
190070	0	0	0	0	0	0	0	0	0	0
190090	0	0	0	0	0	0	0	0	14	152
911060	0	0	0	0	0	0	0	0	0	0
911080	0	0	0	0	0	0	0	0	0	0
915050	0	0	0	0	0	0	0	0	0	0
915070	0	0	0	0	0	0	0	0	0	0
991050	0	0	6	97	0	0	0	0	1	11
995090	0	0	0	0	0	0	0	0	0	0
8459100000	0	0	0	0	0	0	0	0	0	0
210080	0	0	0	0	0	0	0	0	0	0
290040	0	0	0	0	0	0	0	0	0	0
290050	0	0	0	0	0	0	0	0	0	0
290070	0	0	0	0	0	0	0	0	0	0
290090	0	0	0	0	0	0	0	0	2	8
310010	0	0	0	0	0	0	0	0	0	0
310040	0	0	0	0	0	0	0	0	0	0
310070	0	0	0	0	0	0	0	0	0	0
390040	0	0	0	0	0	0	0	0	0	0
390050	0	0	0	0	0	0	0	0	1	28
400040	0	0	0	0	0	0	0	0	0	0
400050	0	0	0	0	0	0	0	0	0	0
400070	0	0	0	0	0	0	0	0	0	0
400080	0	0	0	0	0	0	1	82	0	0
510080	0	0	0	0	0	0	0	0	0	0
590030	0	0	0	0	0	0	0	0	2	170
610080	0	0	0	0	0	0	0	0	0	0
690050	0	0	0	0	0	0	0	0	0	0
690070	0	0	0	0	0	0	0	0	0	0
690090	0	0	1	25	0	0	0	0	0	0
700020	0	0	0	0	0	0	0	0	1	24
700080	0	0	0	0	0	0	4	482	1	3
8460110080	0	0	0	0	0	0	0	0	0	0
190010	0	0	0	0	0	0	0	0	11	128
190050	0	0	0	0	0	0	0	0	0	0
210080	0	0	0	0	0	0	0	0	0	0
290010	0	0	0	0	0	0	0	0	0	0
290030	0	0	0	0	0	0	0	0	0	0
290050	0	0	0	0	0	0	0	0	9	208
310080	0	0	0	0	0	0	0	0	0	0
390050	0	0	0	0	0	0	0	0	1	3
400060	0	0	0	0	0	0	0	0	0	0
400080	0	0	0	0	0	0	0	0	6	45
900060	0	0	0	0	0	0	0	0	0	0
900080	0	0	3	33	0	0	0	0	12	119
8461100060	0	0	0	0	0	0	0	0	0	0
100080	0	0	1	14	0	0	1	4	18	120
200010	0	0	0	0	0	0	0	0	0	0
200090	0	0	0	0	0	0	0	0	6	67
300060	0	0	0	0	0	0	0	0	0	0
300080	0	0	0	0	0	0	0	0	0	0
401050	0	0	0	0	1	599	0	0	0	0
401070	0	0	0	0	0	0	0	0	0	0
401090	0	0	0	0	0	0	0	0	2	1929
405060	0	0	0	0	0	0	0	0	0	0
500050	2	50	0	0	0	0	0	0	0	0
500090	0	0	3	72	0	0	4	72	8	104
9000000001	1	79	0	0	0	0	1	8	1	13
9800000001	14	33	51	365	0	0	0	0	29	516
9900000001	5	7	103	125	0	0	30	36	379	462
Month Tot	22	168	173	1292	5	923	42	749	506	4274
Y-T-D Tot	22	168	173	1292	5	923	42	749	506	4274
NC YTD Tot*	2	50	3	543	4	324	1	65	3	187

Please see notes on last page of the metal forming section.

U.S. EXPORTS
Metal Forming Machine Tools, Machine Tool Totals and Other Manufacturing Technology
January 91

RELEASED: April 3, 1991

Metal Forming Machine Tools		TOTAL YTD		TOTAL MO.	
		UNITS	$000	UNITS	$000
8454300010	Die casting machines	43	1323	43	1323
8462100030	Headers and upsetters, including cold headers	2	1394	2	1394
100050	Forging or die stamping machines, and hammers, n.e.c.	9	1353	9	1353
210080	Bending, folding, straight. or flat. mach., incl presses, NC	9	1787	9	1787
290030	Press brakes, non-NC	6	101	6	101
290040	Bending rolls, non-NC	3	56	3	56
290050	Bending, folding, straight., or flat., n.e.c., non-NC	98	2308	98	2308
310080	Shearing machines, NC	5	429	5	429
390050	Shearing machines, non-NC	30	601	30	601
410080	Punching or notching mach., incl. comb. punch & shear, NC	10	1347	10	1347
490050	Punching or notching mach., incl. comb. punch & sh., non-NC	63	2136	63	2136
910060	Hydraulic presses, NC	4	120	4	120
910090	Hydraulic presses, non-NC	95	1967	95	1967
990030	Presses, n.e.c., NC	13	635	13	635
990040	Presses, mechanical, non-NC	33	2269	33	2269
990060	Presses, n.e.c., non-NC	148	2427	148	2427
8463100080	Draw benches for bars, tubes, profiles, wire or the like	30	1176	30	1176
200080	Thread rolling machines	6	116	6	116
300080	Machines for working wire	63	2383	63	2383
900080	Metal forming machine tools, n.e.c.	89	2032	89	2032
9800000002	Used or rebuilt machine tools	300	5175	300	5175
9900000002	Machine tools valued at less than $3,025	1569	1230	1569	1230
	Forming Total			2628	32365
	Y-T-D Forming Total	2628	32365		
	NC Y-T-D Forming Total	41	4318		
	Cutting and Forming Totals:				
	Monthly Total			6801	75953
	Y-T-D Total	6801	75953		
	NC Y-T-D Total*	154	20994		

Other Manufacturing Technology		TOTAL YTD		TOTAL MO.	
		UNITS	$000	UNITS	$000
1000000000	Machine tool parts and accessories	0	57077	0	57077
2000000000	Parts for working rubber or plastics - heading 8477	0	23804	0	23804
2710003070	Quenching or cutting oils	0	448	0	448
8428900010	Industrial robots for lifting, handling, loading or unload	82	560	82	560
8431390090	Parts industrial robots, handling and loading - heading 8428	0	8292	0	8292
8456100000	Laser, light or photon beam for working any material	75	3424	75	3424
200000	Ultrasonic process for working any material	7	187	7	187
8477106010	Injection molding mach., for rubber or oth. thermosetting	17	1164	17	1164
106070	Injection molding machines, for thermoplastics	30	4555	30	4555
200005	Extruders; rubber or other thermosetting mat., single screw	7	557	7	557
200015	Extruders; rubber or thermosetting, other incl. multi. screw	22	1858	22	1858
200030	Extruders; thermoplastics, single screw	31	956	31	956
200060	Extruders; thermoplastics, other incl. multi. screw	14	3419	14	3419
300000	Blow molding machines	75	5132	75	5132
400000	Vacuum-molding and other thermoforming machines	51	473	51	473
510010	Machines for molding or retreading pneumatic tires	38	693	38	693
510090	Machines for molding or otherwise forming inner tubes	82	1187	82	1187
590000	Machines for molding or otherwise forming n.e.c.	129	1136	129	1136
800000	Machines for working rubber or plastics n.e.c.	305	6333	305	6333
8479899040	Industrial robots, n.e.c.	508	4651	508	4651
908040	Industrial robot parts	0	2127	0	2127
8537100030	Numerical controls for controlling machine tools	133	1926	133	1926
9024100000	Machines and appliances for testing metals	0	4419	0	4419
9031100000	Machines for balancing mechanical parts	0	3248	0	3248
300000	Profile projectors	0	194	0	194
9032810040	Industrial process control instr., hydraulic or pneumatic	68127	3728	68127	3728

Note: Product code 1000000000 represents aggregated machine tool parts codes 8466100010 through 8466940000.
* "NC Y-T-D Total" does not include code 8456300000.
Note: "0" in units column with corresponding value means that unit measure is not meaningful.
n.e.c. - Not elsewhere classified.

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Metal Forming

	Australia		Austria		Belgium		Brazil		Canada	
	Units	$000	Units	$000	Units	$000	Units	$000	Units	$000
8454300010	0	0	0	0	2	3	0	0	0	0
8462100030	0	0	0	0	0	0	0	0	0	0
100050	0	0	0	0	0	0	0	0	1	133
210080	0	0	0	0	0	0	1	33	0	0
290030	0	0	0	0	0	0	0	0	5	60
290040	0	0	0	0	0	0	0	0	1	14
290050	0	0	0	0	0	0	0	0	59	1481
310080	0	0	0	0	0	0	0	0	1	33
390050	0	0	0	0	0	0	0	0	12	167
410080	0	0	0	0	0	0	0	0	2	415
490050	0	0	0	0	0	0	0	0	13	152
910060	0	0	0	0	0	0	0	0	0	0
910090	3	23	0	0	0	0	0	0	2	134
990030	0	0	0	0	0	0	0	0	1	16
990040	0	0	0	0	0	0	17	754	0	0
990060	0	0	0	0	0	0	1	20	4	47
8463100080	0	0	0	0	0	0	0	0	7	754
200080	0	0	0	0	0	0	0	0	0	0
300080	0	0	0	0	2	42	5	40	6	230
900080	5	90	0	0	0	0	0	0	4	71
9800000002	7	40	0	0	1	5	2	40	38	1276
9900000002	12	12	0	0	45	29	25	21	121	105
Month Tot	27	164	0	0	50	79	51	908	277	5088
Y-T-D Tot	27	164	0	0	50	79	51	908	277	5088
NC YTD Tot	0	0	0	0	0	0	1	33	4	464
C&F Month	116	1162	9	10	76	1055	71	1255	678	9167
C&F Y-T-D	116	1162	9	10	76	1055	71	1255	678	9167
C&F NC YTD*	1	506	0	0	7	831	1	73	17	2275

Other Manufacturing Technology

1000000000	0	603	0	75	0	455	0	1660	0	11000
2000000000	0	688	0	1158	0	134	0	700	0	5130
2710003070	0	0	0	0	0	0	0	18	0	90
8428900010	0	0	0	0	0	0	0	0	44	498
8431390090	0	285	0	7	0	1181	0	6	0	1291
8456100000	1	21	0	0	1	18	0	0	1	20
200000	0	0	0	0	2	54	0	0	0	0
8477106010	0	0	0	0	0	0	0	0	4	139
106070	0	0	0	0	0	0	0	0	7	1211
200005	0	0	0	0	0	0	0	0	2	214
200015	0	0	0	0	0	0	0	0	13	1263
200030	2	124	0	0	0	0	0	0	0	0
200060	0	0	0	0	1	1776	0	0	3	671
300000	0	0	0	0	0	0	0	0	1	503
400000	0	0	0	0	0	0	0	0	13	117
510010	0	0	0	0	13	66	2	45	0	0
510090	0	0	0	0	0	0	0	0	0	0
590000	0	0	0	0	2	4	0	0	2	67
800000	1	14	0	0	0	0	0	0	102	2220
8479899040	1	7	0	0	0	0	0	0	386	2310
908040	0	20	0	0	0	0	0	0	0	661
8537100030	1	14	0	0	2	25	0	0	11	114
9024100000	0	83	0	0	0	62	0	109	0	409
9031100000	0	33	0	0	0	0	0	0	0	845
300000	0	0	0	0	0	0	0	0	0	10
9032810040	236	27	1211	61	870	43	55	29	1896	268

Note: Product Code 1000000000 represents aggregated machine tool parts codes 8466100010 through 8466940000.
* "C&F NC YTD" does not include code 8456300000.
Note: "0" in units column with corresponding value means that unit measure is not meaningful.

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Metal Forming

	China		France		Germany **		India		Indonesia	
	Units	$000	Units	$000	Units	$000	Units	$000	Units	$000
8454300010	2	916	0	0	4	25	7	78	0	0
8462100030	0	0	0	0	1	236	0	0	0	0
100050	0	0	2	146	4	641	0	0	0	0
210080	1	578	0	0	4	591	0	0	0	0
290030	0	0	0	0	0	0	0	0	0	0
290040	0	0	0	0	0	0	0	0	0	0
290050	2	64	1	37	5	110	2	9	4	76
310080	0	0	0	0	0	0	0	0	0	0
390050	2	127	0	0	0	0	0	0	0	0
410080	0	0	0	0	0	0	0	0	0	0
490050	0	0	0	0	7	102	0	0	7	29
910060	1	8	0	0	0	0	0	0	0	0
910090	1	31	0	0	13	719	0	0	0	0
990030	0	0	0	0	11	563	0	0	0	0
990040	0	0	0	0	11	969	0	0	0	0
990060	0	0	9	254	1	206	0	0	0	0
8463100080	0	0	0	0	0	0	0	0	0	0
200080	0	0	0	0	0	0	0	0	0	0
300080	0	0	5	46	25	1262	0	0	0	0
900080	0	0	0	0	13	521	6	196	1	238
9800000002	0	0	12	231	18	185	0	0	0	0
9900000002	0	0	80	69	166	78	0	0	18	15
Month Tot	9	1725	109	784	283	6207	15	283	30	359
Y-T-D Tot	9	1725	109	784	283	6207	15	283	30	359
NC YTD Tot	2	586	0	0	15	1153	0	0	0	0
C&F Month	36	3080	263	3920	452	15035	99	2081	31	374
C&F Y-T-D	36	3080	263	3920	452	15035	99	2081	31	374
C&F NC YTD*	9	1204	10	1414	28	7927	0	0	0	0

Other Manufacturing Technology

1000000000	0	342	0	2341	0	7612	0	194	0	246
2000000000	0	9	0	279	0	1484	0	281	0	36
2710003070	0	17	0	0	0	9	0	5	0	42
8428900010	0	0	0	0	0	0	0	0	0	0
8431390090	0	0	0	255	0	223	0	23	0	216
8456100000	0	0	1	12	4	227	0	0	0	0
200000	0	0	0	0	0	0	0	0	0	0
8477106010	0	0	0	0	0	0	0	0	0	0
106070	0	0	0	0	4	290	0	0	0	0
200005	0	0	0	0	0	0	0	0	0	0
200015	0	0	0	0	0	0	0	0	0	0
200030	0	0	0	0	3	99	0	0	0	0
200060	0	0	0	0	2	75	0	0	0	0
300000	0	0	3	1459	10	181	0	0	0	0
400000	0	0	23	200	1	3	0	0	0	0
510010	0	0	0	0	0	0	0	0	0	0
510090	0	0	0	0	0	0	0	0	0	0
590000	4	63	10	59	5	92	0	0	0	0
800000	30	475	4	200	2	116	1	24	0	0
8479899040	5	28	7	1061	46	346	0	0	0	0
908040	0	0	0	65	0	139	0	0	0	0
8537100030	4	64	12	188	16	249	0	0	0	0
9024100000	0	99	0	82	0	234	0	19	0	23
9031100000	0	144	0	0	0	3	0	637	0	3
300000	0	0	0	3	0	23	0	0	0	0
9032810040	4	4	1841	157	8829	488	118	23	0	0

Note: Product Code 1000000000 represents aggregated machine tool parts codes 8466100010 through 8466940000.
* "C&F NC YTD" does not include code 8456300000.
Note: "0" in units column with corresponding value means that unit measure is not meaningful.

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Metal Forming

	Italy		Japan		Korea		Malaysia		Mexico	
	Units	$000	Units	$000	Units	$000	Units	$000	Units	$000
8454300010	0	0	0	0	0	0	17	183	1	8
8462100030	0	0	1	1158	0	0	0	0	0	0
100050	1	390	1	42	0	0	0	0	0	0
210080	0	0	1	32	1	500	0	0	1	53
290030	0	0	1	41	0	0	0	0	0	0
290040	0	0	0	0	0	0	0	0	1	13
290050	0	0	6	25	0	0	0	0	12	161
310080	0	0	0	0	0	0	0	0	2	286
390050	0	0	1	55	11	188	0	0	1	23
410080	0	0	0	0	4	262	0	0	2	461
490050	1	3	11	228	0	0	0	0	11	224
910060	0	0	0	0	2	104	0	0	1	8
910090	0	0	0	0	1	70	0	0	65	629
990030	0	0	0	0	0	0	0	0	0	0
990040	0	0	2	107	0	0	0	0	0	0
990060	1	22	18	666	0	0	0	0	107	1055
8463100080	0	0	0	0	0	0	0	0	0	0
200080	0	0	2	60	0	0	0	0	4	56
300080	5	236	2	89	2	32	0	0	4	96
900080	0	0	18	180	0	0	0	0	12	115
9800000002	29	558	5	38	31	437	0	0	94	651
9900000002	9	8	30	25	85	72	0	0	232	218
Month Tot	46	1216	99	2747	137	1665	17	183	550	4056
Y-T-D Tot	46	1216	99	2747	137	1665	17	183	550	4056
NC YTD Tot	0	0	1	32	7	866	0	0	6	807
C&F Month	293	3435	662	6977	664	4136	20	222	1135	7912
C&F Y-T-D	293	3435	662	6977	664	4136	20	222	1135	7912
C&F NC YTD*	3	456	31	1795	7	866	0	0	17	1938

Other Manufacturing Technology

1000000000	0	3072	0	4551	0	4059	0	239	0	3170
2000000000	0	262	0	835	0	1353	0	225	0	2354
2710003070	0	10	0	56	0	12	0	0	0	40
8428900010	1	15	0	0	0	0	0	0	0	0
8431390090	0	14	0	250	0	0	0	66	0	134
8456100000	0	0	18	1997	0	0	0	0	0	0
200000	1	12	0	0	0	0	0	0	0	0
8477106010	0	0	0	0	0	0	0	0	8	636
106070	0	0	7	856	0	0	0	0	10	2093
200005	0	0	0	0	0	0	0	0	4	234
200015	0	0	7	378	0	0	0	0	2	216
200030	0	0	0	0	10	259	0	0	13	397
200060	0	0	5	175	0	0	0	0	0	0
300000	0	0	0	0	21	386	0	0	21	707
400000	0	0	0	0	0	0	0	0	12	132
510010	5	134	0	0	0	0	0	0	13	336
510090	0	0	0	0	11	266	0	0	5	55
590000	6	93	77	636	1	9	7	11	1	3
800000	0	0	2	28	1	11	0	0	42	878
8479899040	0	0	14	90	0	0	0	0	3	140
908040	0	27	0	521	0	0	0	5	0	141
8537100030	2	36	4	44	9	108	1	11	2	51
9024100000	0	285	0	560	0	88	0	0	0	282
9031100000	0	5	0	13	0	938	0	0	0	355
300000	0	0	0	41	0	0	0	0	0	0
9032810040	4486	287	1215	96	2883	144	2	5	235	77

Note: Product Code 1000000000 represents aggregated machine tool parts codes 8466100010 through 8466940000.
* "C&F NC YTD" does not include code 8456300000.
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Metal Forming

	Netherlands		Singapore		Spain		Switzerland		Taiwan	
	Units	$000	Units	$000	Units	$000	Units	$000	Units	$000
8454300010	0	0	8	93	0	0	0	0	0	0
8462100030	0	0	0	0	0	0	0	0	0	0
100050	0	0	0	0	0	0	0	0	0	0
210080	0	0	0	0	0	0	0	0	0	0
290030	0	0	0	0	0	0	0	0	0	0
290040	0	0	0	0	0	0	0	0	0	0
290050	0	0	0	0	0	0	0	0	0	0
310080	1	66	1	44	0	0	0	0	0	0
390050	0	0	0	0	0	0	0	0	0	0
410080	0	0	0	0	0	0	0	0	0	0
490050	0	0	6	49	0	0	0	0	0	0
910060	0	0	0	0	0	0	0	0	0	0
910090	0	0	0	0	0	0	0	0	0	0
990030	0	0	0	0	0	0	0	0	0	0
990040	0	0	1	40	0	0	0	0	0	0
990060	0	0	2	51	0	0	2	11	0	0
8463100080	0	0	1	6	0	0	11	281	0	0
200080	0	0	0	0	0	0	0	0	0	0
300080	0	0	0	0	1	16	1	25	0	0
900080	6	81	1	13	0	0	0	0	0	0
9800000002	0	0	3	52	0	0	0	0	0	0
9900000002	20	23	48	41	4	3	54	49	8	7
Month Tot	27	169	71	388	5	19	68	365	8	7
Y-T-D Tot	27	169	71	388	5	19	68	365	8	7
NC YTD Tot	1	66	1	44	0	0	0	0	0	0
C&F Month	75	806	93	754	29	206	287	496	215	510
C&F Y-T-D	75	806	93	754	29	206	287	496	215	510
C&F NC YTD*	2	119	1	44	1	27	1	29	2	56

Other Manufacturing Technology

1000000000	0	1222	0	1053	0	388	0	828	0	391
2000000000	0	263	0	111	0	37	0	126	0	1376
2710003070	0	0	0	3	0	0	0	0	0	0
8428900010	0	0	0	0	0	0	0	0	0	0
8431390090	0	34	0	129	0	37	0	0	0	276
8456100000	0	0	0	0	0	0	0	0	1	47
200000	0	0	1	15	0	0	0	0	0	0
8477106010	0	0	0	0	0	0	0	0	0	0
106070	0	0	0	0	0	0	0	0	0	0
200005	0	0	0	0	0	0	0	0	0	0
200015	0	0	0	0	0	0	0	0	0	0
200030	0	0	0	0	0	0	0	0	0	0
200060	0	0	1	680	0	0	0	0	0	0
300000	0	0	0	0	0	0	3	6	0	0
400000	1	15	0	0	0	0	0	0	0	0
510010	0	0	0	0	0	0	0	0	0	0
510090	0	0	0	0	0	0	0	0	0	0
590000	0	0	1	17	0	0	1	14	1	8
800000	0	0	7	50	0	0	0	0	1	120
8479899040	0	0	1	14	0	0	20	209	0	0
908040	0	0	0	0	0	20	0	65	0	23
8537100030	1	12	11	172	6	51	0	0	1	14
9024100000	0	33	0	181	0	30	0	19	0	52
9031100000	0	0	0	109	0	0	0	0	0	15
300000	0	72	0	4	0	0	0	0	0	4
9032810040	11674	605	5415	295	4544	234	3634	182	3	3

Note: Product Code 1000000000 represents aggregated machine tool parts codes 8466100010 through 8466940000.
* "C&F NC YTD" does not include code 8456300000.
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Metal Forming

	Thailand		U.K.		USSR		Venezuela		All Other	
	Units	$000	Units	$000	Units	$000	Units	$000	Units	$000
8454300010	0	0	0	0	0	0	0	0	2	18
8462100030	0	0	0	0	0	0	0	0	0	0
100050	0	0	0	0	0	0	0	0	0	0
210080	0	0	0	0	0	0	0	0	0	0
290030	0	0	0	0	0	0	0	0	0	0
290040	0	0	0	0	0	0	0	0	1	30
290050	0	0	2	37	0	0	0	0	5	308
310080	0	0	0	0	0	0	0	0	0	0
390050	0	0	0	0	0	0	0	0	3	41
410080	0	0	2	209	0	0	0	0	0	0
490050	0	0	3	1258	0	0	0	0	4	91
910060	0	0	0	0	0	0	0	0	0	0
910090	0	0	1	128	0	0	0	0	9	233
990030	0	0	0	0	0	0	0	0	1	57
990040	0	0	0	0	0	0	0	0	2	399
990060	0	0	0	0	0	0	0	0	3	95
8463100080	2	13	6	82	0	0	0	0	3	40
200080	0	0	0	0	0	0	0	0	0	0
300080	1	85	0	0	0	0	0	0	4	185
900080	1	14	13	321	0	0	3	35	6	156
9800000002	9	30	6	38	0	0	1	50	44	1545
9900000002	14	13	98	76	0	0	6	5	494	362
Month Tot	27	156	131	2149	0	0	10	90	581	3560
Y-T-D Tot	27	156	131	2149	0	0	10	90	581	3560
NC YTD Tot	0	0	2	209	0	0	0	0	1	57
C&F Month	49	323	304	3441	5	923	52	839	1087	7834
C&F Y-T-D	49	323	304	3441	5	923	52	839	1087	7834
C&F NC YTD*	2	50	5	752	4	324	1	65	4	243

Other Manufacturing Technology

1000000000	0	204	0	4827	0	107	0	976	0	7460
2000000000	0	243	0	962	0	0	0	339	0	5420
2710003070	0	0	0	15	0	0	0	4	0	126
8428900010	0	0	3	28	0	0	0	0	34	20
8431390090	0	1007	0	571	0	49	0	117	0	2122
8456100000	0	0	1	15	0	0	15	347	32	720
200000	0	0	0	0	0	0	0	0	3	105
8477106010	0	0	0	0	0	0	0	0	5	389
106070	0	0	2	105	0	0	0	0	0	0
200005	0	0	0	0	0	0	0	0	1	110
200015	0	0	0	0	0	0	0	0	0	0
200030	0	0	0	0	0	0	0	0	3	76
200060	0	0	2	42	0	0	0	0	0	0
300000	11	212	3	1330	0	0	0	0	2	347
400000	0	0	0	0	0	0	0	0	1	5
510010	0	0	0	0	0	0	0	0	5	113
510090	29	25	4	110	0	0	0	0	33	731
590000	0	0	8	24	0	0	0	0	3	35
800000	19	305	53	1259	0	0	0	0	40	634
8479899040	0	0	23	373	0	0	0	0	2	73
908040	0	0	0	413	0	0	0	3	0	23
8537100030	2	25	40	633	0	0	0	0	8	114
9024100000	0	0	0	1100	0	68	0	0	0	602
9031100000	0	0	0	38	0	0	0	30	0	79
300000	0	0	0	6	0	0	0	0	0	30
9032810040	10980	34	5612	436	0	0	137	7	2247	222

Note: Product Code 1000000000 represents aggregated machine tool parts codes 8466100010 through 8466940000.
* "C&F NC YTD" does not include code 8456300000.
Note: "0" in units column with corresponding value means that unit measure is not meaningful.

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	METAL CUTTING		METAL FORMING		TOTAL	
	UNITS	$000	UNITS	$000	UNITS	$000
EUROPE						
Bulgaria	0	0	0	0	0	0
Czechoslovakia	0	0	0	0	0	0
Denmark	4	74	2	53	6	127
Finland	1	13	9	207	10	219
Greece	0	0	213	184	213	184
Hungary	0	0	0	0	0	0
Iceland	0	0	9	8	9	8
Ireland	18	188	1	13	19	201
Luxembourg	2	3	0	0	2	3
Norway	6	58	67	34	73	92
Poland	0	0	0	0	0	0
Portugal	2	18	0	0	2	18
Romania	5	175	0	0	5	175
Sweden	71	57	72	166	143	222
Turkey	0	0	3	113	3	113
Yugoslavia	2	24	1	30	3	54
Oth Europe	13	39	0	0	13	39
TOTAL	1198	18985	1096	11796	2294	30782
NORTH AND CENTRAL AMERICA						
Bahamas	0	0	1	15	1	15
Barbados	0	0	6	75	6	75
Belize	0	0	0	0	0	0
Bermuda	0	0	5	4	5	4
Costa Rica	4	165	18	40	22	205
Dominican Rep	12	7	0	0	12	7
El Salvador	0	0	3	95	3	95
Guatemala	1	11	1	3	2	14
Haiti	0	0	2	9	2	9
Honduras	21	112	0	0	21	112
Jamaica	0	0	0	0	0	0
Panama	8	5	11	9	19	15
Trinidad	1	28	56	48	57	77
Oth N & C Am.	0	0	0	0	0	0
TOTAL	1033	8264	930	9442	1963	17707
SOUTH AMERICA						
Argentina	13	2098	2	61	15	2159
Bolivia	8	5	0	0	8	5
Chile	40	400	5	117	45	517
Colombia	27	77	18	163	45	240
Ecuador	5	12	2	37	7	49
Paraguay	0	0	0	0	0	0
Peru	12	55	5	9	17	64
Uruguay	0	0	0	0	0	0
Oth South Am.	0	0	0	0	0	0
TOTAL	167	3741	93	1385	260	5126
OCEANIA						
New Zealand	0	0	6	11	6	11
Oth Oceania	0	0	0	0	0	0
TOTAL	89	998	33	175	122	1174

U.S. EXPORTS
Metal Cutting and Metal Forming Machine Tool Totals
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	METAL CUTTING		METAL FORMING		TOTAL	
	UNITS	$000	UNITS	$000	UNITS	$000
ASIA						
Bangladesh	0	0	0	0	0	0
Hong Kong	152	327	7	1329	159	1656
Iran	0	0	0	0	0	0
Iraq	0	0	0	0	0	0
Israel	0	0	8	80	8	80
Jordan	0	0	0	0	0	0
Kuwait	0	0	0	0	0	0
Laos	0	0	0	0	0	0
Lebanon	0	0	0	0	0	0
Macao	0	0	0	0	0	0
Oman	3	7	0	0	3	7
Pakistan	0	0	0	0	0	0
Philippines	22	83	4	3	26	87
Qatar	0	0	0	0	0	0
Saudi Arabia	22	67	24	534	46	600
Sri Lanka	0	0	0	0	0	0
Syria	0	0	0	0	0	0
United Arab Emr	10	24	0	0	10	24
Vietnam	0	0	0	0	0	0
Oth Asia	0	0	0	0	0	0
TOTAL	1665	11453	456	9457	2121	20910
AFRICA						
Algeria	0	0	0	0	0	0
Botswana	0	0	0	0	0	0
Egypt	3	61	2	13	5	74
Ethiopia	0	0	0	0	0	0
Gabon	0	0	0	0	0	0
Ghana	0	0	0	0	0	0
Guinea	0	0	0	0	0	0
Kenya	0	0	0	0	0	0
Malawi	1	20	0	0	1	20
Mauritius	0	0	0	0	0	0
Morocco	0	0	14	12	14	12
Niger	0	0	0	0	0	0
Nigeria	0	0	0	0	0	0
South Africa	16	52	4	83	20	135
Sudan	0	0	0	0	0	0
Swaziland	0	0	0	0	0	0
Tunisia	0	0	0	0	0	0
Zaire	0	0	0	0	0	0
Zambia	0	0	0	0	0	0
Zimbabwe	1	13	0	0	1	13
Oth Africa	0	0	0	0	0	0
TOTAL	21	146	20	109	41	255

Note: Region totals include top countries detailed by product as well as countries listed above.
** West and East Germany are combined.
Cutting Section Notes:
Total for Metal Cutting and Metal Forming appears in Metal Forming Section.
Product Code 9000000001, Metal cutting machine tools, n.e.c., represents the total of codes: 8461900040 and 8461900080.
n.e.c. - Not elsewhere classified.
* "NC Y-T-D Cutting Total" does not include code 8456300000.

RELEASED: April 3, 1991

U.S. IMPORTS - Metal Cutting Machine Tools - January 91

		TOTAL YTD		TOTAL MO.	
		UNITS	$000	UNITS	$000
8456301020	Traveling wire electro-discharge machines	60	2807	60	2807
301050	Electro-discharge machines, n.e.c., NC	15	1191	15	1191
301070	Electro-discharge machines, n.e.c., non-NC	111	541	111	541
8457100015	Vert. mach. ctrs., ATC, Y-axis travel not over 660mm (26")	196	16615	196	16615
100025	Vert. mach. ctrs., ATC, Y-axis travel over 660mm (26")	20	2987	20	2987
100035	Horizontal machining centers, ATC	60	12115	60	12115
100045	Machining centers, n.e.c.	17	1878	17	1878
200010	Unit construction mach. (single station transfer), NC	8	419	8	419
200090	Unit construction mach. (single station transfer), non-NC	1	217	1	217
300010	Multi-station transfer machines, NC	2	1675	2	1675
300090	Multi-station transfer machines, non-NC	2	1820	2	1820
8458110010	Horizontal lathes, multiple spindle, NC	24	3935	24	3935
110030	Horiz. lathes, power rating under 18.65 kW (25 HP), NC	102	8224	102	8224
110050	Horiz. lathes, power rating 18.65-37.3 kW (25-50 HP), NC	26	3930	26	3930
110090	Horiz. lathes, power rating over 37.3 kW (50 HP), NC	6	1421	6	1421
190030	Horizontal engine or toolroom lathes, non-NC	512	3903	512	3903
190050	Automatic bar and/or chucking mach., single spindle, non-NC	76	2609	76	2609
190070	Automatic bar and/or chucking mach., mult. spindle, non-NC	3	86	3	86
190090	Horizontal lathes, n.e.c., non-NC	70	1411	70	1411
911060	Vertical turret lathes, multiple spindle, NC	2	367	2	367
911080	Vertical turret lathes, n.e.c., NC	2	565	2	565
915050	Vertical lathes, excl. VTL's, multiple spindle, NC	0	0	0	0
915070	Vertical lathes, excluding VTL's, n.e.c., NC	5	436	5	436
991050	Vertical turret lathes, non-NC	13	81	13	81
995090	Vertical lathes, n.e.c., excl. VTL's, non-NC	48	726	48	726
8459100000	Way-type unit head machines	1	58	1	58
210080	Other drilling machines, NC	25	1841	25	1841
290040	Drilling machines, multiple spindle, non-NC	6	913	6	913
290050	Drilling machines, radial, non-NC	20	310	20	310
290070	Drilling, upright, ex. sensitive, turret & deep hole, non-NC	1	6	1	6
290090	Drilling machines, n.e.c., non-NC	84	2215	84	2215
310010	Boring-milling mach., horiz. spind., table, excl. planer, NC	1	419	1	419
310040	Boring-milling mach., horiz. spindle, n.e.c., NC	7	1097	7	1097
310070	Boring-milling machines, n.e.c., NC	5	41	5	41
390040	Boring-milling mach., horiz. spindle, n.e.c., non-NC	0	0	0	0
390050	Boring-milling mach., excl. horiz. spindle, n.e.c., non-NC	7	340	7	340
400040	Boring machines, vertical, NC	0	0	0	0
400050	Boring machines, vertical, non-NC	10	282	10	282
400070	Boring machines, n.e.c., NC	6	271	6	271
400080	Boring machines, n.e.c., non-NC	39	762	39	762
510080	Milling machines, knee type, NC	118	1186	118	1186
590030	Milling machines, knee type, non-NC	145	1681	145	1681
610080	Milling machines, excluding knee type, n.e.c., NC	85	8363	85	8363
690050	Milling machines, profile, dup., or die sinking, non-NC	4	17	4	17
690070	Milling machines, bed type, non-NC	9	250	9	250
690090	Milling machines, n.e.c., non-NC	88	1276	88	1276
700020	Threading or tapping machines, n.e.c., NC	20	1071	20	1071
700080	Threading or tapping machines, n.e.c., non-NC	6	396	6	396
8460110080	Flat surface grinding machines, NC	12	738	12	738
190010	Flat surface grinding mach., recip.-table type, non-NC	53	728	53	728
190050	Flat surface grinding machines, n.e.c., non-NC	84	1364	84	1364
210080	Grinding mach., of an accuracy at least 0.01mm, n.e.c., NC	61	7466	61	7466
290010	Grinding mach., external cylindrical, (incl. univ.), non-NC	57	1029	57	1029
290030	Grinding machines, internal cylindrical, non-NC	21	259	21	259
290050	Grinding mach., of accuracy at least 0.01mm, n.e.c., non-NC	91	2250	91	2250
310080	Sharpening machines (tool & cutter grinding), NC	7	416	7	416
390050	Sharpening machines (tool or cutter grinding), non-NC	141	1637	141	1637
400060	Honing or lapping machines, NC	6	945	6	945
400080	Honing or lapping machines, non-NC	27	1180	27	1180
900060	Grinding, honing, polishing, & lapping mach., n.e.c., NC	2	22	2	22
900080	Grinding, honing, polishing, & lapping mach., n.e.c., non-NC	100	5108	100	5108
8461100060	Planing machines, NC	0	0	0	0
100080	Planing machines, non-NC	0	0	0	0
200010	Shaping or slotting machines, NC	0	0	0	0
200090	Shaping or slotting machines, non-NC	1	23	1	23
300060	Broaching machines, NC	0	0	0	0
300080	Broaching machines, non-NC	4	435	4	435
401020	Gear cutting for bevel gears	0	0	0	0
401030	Gear hobbers	13	3575	13	3575
401040	Gear shapers	15	927	15	927
401060	Gear cutting machines, n.e.c.	4	1825	4	1825
405050	Gear grinding or finishing for bevel gears	0	0	0	0
405070	Gear grinding or finishing machines, n.e.c.	2	921	2	921
500050	Sawing or cutting-off machines, NC	26	137	26	137
500090	Sawing or cutting-off machines, non-NC	166	2530	166	2530
9000000001	Metal cutting machine tools, n.e.c.	39	2239	39	2239
9800000001	Used or rebuilt machine tools	155	2904	155	2904
9900000001	Machine tools valued at less than $3,025	69216	7162	69216	7162
	Cutting Total			72371	138570
	Y-T-D Cutting Total	72371	138570		
	NC Y-T-D Cutting Total	928	82836		

Please see notes on last page of the metal forming section.

U.S. IMPORTS - Metal Cutting Machine Tools - January 91

	Belgium		Brazil		Canada		France		Germany **	
	Units	$000	Units	$000	Units	$000	Units	$000	Units	$000
8456301020	0	0	0	0	0	0	0	0	0	0
301050	0	0	0	0	0	0	0	0	2	377
301070	0	0	0	0	0	0	0	0	2	99
8457100015	0	0	0	0	0	0	0	0	6	847
100025	0	0	0	0	0	0	0	0	0	0
100035	0	0	0	0	0	0	0	0	5	848
100045	0	0	0	0	1	22	0	0	7	1256
200010	0	0	0	0	0	0	0	0	0	0
200090	0	0	0	0	0	0	0	0	0	0
300010	0	0	0	0	0	0	0	0	2	1675
300090	0	0	0	0	0	0	0	0	0	0
8458110010	0	0	4	391	0	0	0	0	0	0
110030	0	0	0	0	0	0	0	0	0	0
110050	0	0	0	0	0	0	3	291	0	0
110090	0	0	0	0	0	0	0	0	2	420
190030	0	0	12	100	0	0	0	0	0	0
190050	0	0	4	81	0	0	0	0	3	1608
190070	0	0	0	0	0	0	0	0	0	0
190090	0	0	1	21	0	0	0	0	0	0
911060	0	0	0	0	0	0	0	0	0	0
911080	0	0	0	0	0	0	0	0	0	0
915050	0	0	0	0	0	0	0	0	0	0
915070	0	0	0	0	2	30	0	0	0	0
991050	0	0	0	0	0	0	0	0	0	0
995090	0	0	24	164	0	0	0	0	10	55
8459100000	0	0	0	0	0	0	0	0	0	0
210080	0	0	0	0	0	0	0	0	2	598
290040	0	0	0	0	1	3	0	0	0	0
290050	0	0	2	25	0	0	0	0	0	0
290070	0	0	0	0	0	0	0	0	0	0
290090	0	0	0	0	2	35	1	1208	1	216
310010	0	0	0	0	0	0	0	0	0	0
310040	0	0	0	0	0	0	0	0	2	224
310070	0	0	0	0	2	15	0	0	3	26
390040	0	0	0	0	0	0	0	0	0	0
390050	0	0	0	0	0	0	0	0	0	0
400040	0	0	0	0	0	0	0	0	0	0
400050	0	0	0	0	0	0	0	0	0	0
400070	0	0	0	0	4	59	0	0	0	0
400080	0	0	0	0	3	40	26	555	5	19
510080	0	0	0	0	0	0	0	0	0	0
590030	0	0	0	0	0	0	3	364	1	10
610080	0	0	0	0	0	0	0	0	4	4705
690050	0	0	0	0	0	0	0	0	0	0
690070	0	0	0	0	0	0	0	0	0	0
690090	0	0	0	0	0	0	0	0	4	355
700020	0	0	0	0	0	0	0	0	1	15
700080	1	5	0	0	0	0	0	0	0	0
8460110080	0	0	0	0	0	0	0	0	11	714
190010	0	0	9	195	0	0	0	0	0	0
190050	0	0	0	0	4	13	0	0	2	509
210080	0	0	0	0	0	0	0	0	8	435
290010	0	0	0	0	13	136	0	0	16	49
290030	0	0	0	0	0	0	0	0	0	0
290050	0	0	0	0	16	57	0	0	25	658
310080	0	0	0	0	0	0	0	0	0	0
390050	0	0	0	0	3	11	1	30	88	1067
400060	0	0	0	0	0	0	0	0	1	78
400080	0	0	0	0	5	55	0	0	7	380
900060	0	0	0	0	0	0	0	0	0	0
900080	0	0	0	0	0	0	1	5	13	1956
8461100060	0	0	0	0	0	0	0	0	0	0
100080	0	0	0	0	0	0	0	0	0	0
200010	0	0	0	0	0	0	0	0	0	0
200090	0	0	0	0	0	0	0	0	0	0
300060	0	0	0	0	0	0	0	0	0	0
300080	0	0	0	0	0	0	0	0	0	0
401020	0	0	0	0	0	0	0	0	0	0
401030	0	0	0	0	0	0	0	0	7	3082
401040	0	0	0	0	0	0	0	0	1	700
401060	0	0	0	0	0	0	0	0	0	0
405050	0	0	0	0	0	0	0	0	0	0
405070	1	755	0	0	0	0	0	0	0	0
500050	0	0	0	0	0	0	0	0	17	85
500090	0	0	0	0	22	311	0	0	70	753
9000000001	0	0	0	0	1	7	0	0	7	419
9800000001	2	9	0	0	8	208	1	6	12	667
9900000001	0	0	0	0	30	57	54	92	120	143
Month Tot	4	768	56	976	117	1059	90	2550	467	25046
Y-T-D Tot	4	768	56	976	117	1059	90	2550	467	25046
NC YTD Tot	0	0	4	391	9	126	3	291	75	12563

Please see notes on last page of the metal forming section.

U.S. IMPORTS - Metal Cutting Machine Tools - January 91

	Italy		Japan		Korea		Singapore		Spain	
	Units	$000	Units	$000	Units	$000	Units	$000	Units	$000
8456301020	0	0	10	1130	0	0	0	0	0	0
301050	0	0	11	745	0	0	0	0	0	0
301070	0	0	2	44	0	0	0	0	0	0
8457100015	0	0	124	11448	0	0	6	377	0	0
100025	0	0	9	1602	0	0	0	0	0	0
100035	0	0	55	11267	0	0	0	0	0	0
100045	0	0	5	351	4	249	0	0	0	0
200010	0	0	0	0	8	419	0	0	0	0
200090	0	0	1	217	0	0	0	0	0	0
300010	0	0	0	0	0	0	0	0	0	0
300090	0	0	0	0	0	0	0	0	0	0
8458110010	0	0	19	2913	0	0	0	0	0	0
110030	1	124	85	7229	2	112	0	0	0	0
110050	0	0	23	3639	0	0	0	0	0	0
110090	0	0	4	1000	0	0	0	0	0	0
190030	0	0	1	6	0	0	22	280	29	235
190050	0	0	1	60	0	0	0	0	0	0
190070	0	0	0	0	0	0	0	0	0	0
190090	0	0	5	159	0	0	0	0	0	0
911060	0	0	2	367	0	0	0	0	0	0
911080	0	0	1	443	1	122	0	0	0	0
915050	0	0	0	0	0	0	0	0	0	0
915070	0	0	3	405	0	0	0	0	0	0
991050	8	34	1	33	0	0	0	0	0	0
995090	1	258	4	82	1	71	0	0	0	0
8459100000	0	0	0	0	0	0	0	0	0	0
210080	0	0	23	1243	0	0	0	0	0	0
290040	0	0	5	909	0	0	0	0	0	0
290050	2	44	4	113	0	0	0	0	4	24
290070	0	0	0	0	0	0	0	0	1	6
290090	2	51	2	300	0	0	0	0	74	385
310010	0	0	1	419	0	0	0	0	0	0
310040	0	0	0	0	0	0	0	0	0	0
310070	0	0	0	0	0	0	0	0	0	0
390040	0	0	0	0	0	0	0	0	0	0
390050	0	0	1	256	0	0	0	0	0	0
400040	0	0	0	0	0	0	0	0	0	0
400050	7	106	2	172	0	0	0	0	0	0
400070	2	212	0	0	0	0	0	0	0	0
400080	2	13	3	136	0	0	0	0	0	0
510080	1	397	0	0	0	0	0	0	114	767
590030	1	29	0	0	0	0	0	0	70	656
610080	0	0	4	362	0	0	2	84	0	0
690050	0	0	0	0	0	0	0	0	0	0
690070	0	0	3	152	0	0	0	0	0	0
690090	0	0	2	138	0	0	0	0	0	0
700020	0	0	19	1056	0	0	0	0	0	0
700080	0	0	4	284	0	0	0	0	1	108
8460110080	1	24	0	0	0	0	0	0	0	0
190010	0	0	3	125	0	0	33	355	0	0
190050	0	0	1	8	0	0	0	0	0	0
210080	0	0	49	5761	0	0	0	0	0	0
290010	0	0	4	158	0	0	0	0	0	0
290030	0	0	1	114	0	0	0	0	0	0
290050	0	0	11	1233	0	0	0	0	0	0
310080	0	0	2	283	0	0	0	0	0	0
390050	2	17	10	70	0	0	0	0	0	0
400060	0	0	5	867	0	0	0	0	0	0
400080	0	0	4	25	0	0	0	0	0	0
900060	0	0	0	0	0	0	0	0	0	0
900080	21	418	44	1259	0	0	0	0	3	261
8461100060	0	0	0	0	0	0	0	0	0	0
100080	0	0	0	0	0	0	0	0	0	0
200010	0	0	0	0	0	0	0	0	0	0
200090	0	0	1	23	0	0	0	0	0	0
300060	0	0	0	0	0	0	0	0	0	0
300080	0	0	1	421	0	0	0	0	0	0
401020	0	0	0	0	0	0	0	0	0	0
401030	0	0	2	317	4	176	0	0	0	0
401040	0	0	14	227	0	0	0	0	0	0
401060	0	0	0	0	0	0	0	0	0	0
405050	0	0	0	0	0	0	0	0	0	0
405070	0	0	1	166	0	0	0	0	0	0
500050	0	0	0	0	0	0	0	0	0	0
500090	4	258	23	968	0	0	0	0	0	0
9000000001	9	48	19	1687	0	0	0	0	0	0
9800000001	31	125	32	635	0	0	0	0	1	9
9900000001	3049	608	2848	461	1636	149	116	18	27	4
Month Tot	3144	2766	3514	63490	1656	1298	179	1114	324	2455
Y-T-D Tot	3144	2766	3514	63490	1656	1298	179	1114	324	2455
NC YTD Tot	5	757	454	52530	15	902	8	461	114	767

Please see notes on last page of the metal forming section.

U.S. IMPORTS - Metal Cutting Machine Tools - January 91

	Sweden		Switzerland		Taiwan		U.K.		All Other	
	Units	$000	Units	$000	Units	$000	Units	$000	Units	$000
8456301020	0	0	3	470	17	89	0	0	30	1117
301050	0	0	2	69	0	0	0	0	0	0
301070	2	23	10	226	8	65	0	0	87	83
8457100015	0	0	0	0	44	3008	9	697	7	238
100025	0	0	0	0	8	1254	0	0	3	131
100035	0	0	0	0	0	0	0	0	0	0
100045	0	0	0	0	0	0	0	0	0	0
200010	0	0	0	0	0	0	0	0	0	0
200090	0	0	0	0	0	0	0	0	0	0
300010	0	0	0	0	0	0	0	0	0	0
300090	0	0	1	133	0	0	1	1687	0	0
8458110010	0	0	1	632	0	0	0	0	0	0
110030	0	0	0	0	7	387	3	244	4	128
110050	0	0	0	0	0	0	0	0	0	0
110090	0	0	0	0	0	0	0	0	0	0
190030	0	0	0	0	256	1856	12	210	180	1217
190050	0	0	3	439	35	286	0	0	30	135
190070	0	0	0	0	1	33	0	0	2	53
190090	0	0	0	0	54	522	7	110	3	600
911060	0	0	0	0	0	0	0	0	0	0
911080	0	0	0	0	0	0	0	0	0	0
915050	0	0	0	0	0	0	0	0	0	0
915070	0	0	0	0	0	0	0	0	0	0
991050	0	0	0	0	3	11	1	3	0	0
995090	0	0	0	0	4	29	4	67	0	0
8459100000	0	0	0	0	0	0	0	0	1	58
210080	0	0	0	0	0	0	0	0	0	0
290040	0	0	0	0	0	0	0	0	0	0
290050	0	0	0	0	6	75	0	0	2	28
290070	0	0	0	0	0	0	0	0	0	0
290090	2	21	0	0	0	0	0	0	0	0
310010	0	0	0	0	0	0	0	0	0	0
310040	0	0	1	713	0	0	3	38	1	122
310070	0	0	0	0	0	0	0	0	0	0
390040	0	0	0	0	0	0	0	0	0	0
390050	0	0	0	0	4	18	0	0	2	66
400040	0	0	0	0	0	0	0	0	0	0
400050	0	0	0	0	0	0	0	0	1	4
400070	0	0	0	0	0	0	0	0	0	0
400080	0	0	0	0	0	0	0	0	0	0
510080	0	0	0	0	3	23	0	0	0	0
590030	0	0	0	0	48	290	18	316	4	15
610080	0	0	1	753	64	1039	1	1366	9	53
690050	0	0	0	0	4	17	0	0	0	0
690070	0	0	0	0	6	98	0	0	0	0
690090	0	0	0	0	8	188	0	0	74	594
700020	0	0	0	0	0	0	0	0	0	0
700080	0	0	0	0	0	0	0	0	0	0
8460110080	0	0	0	0	0	0	0	0	0	0
190010	0	0	0	0	8	53	0	0	0	0
190050	0	0	4	147	66	530	6	138	1	19
210080	2	1028	1	236	0	0	0	0	1	6
290010	0	0	16	438	3	102	5	145	0	0
290030	0	0	0	0	8	45	0	0	12	100
290050	0	0	4	40	29	186	1	35	5	42
310080	0	0	0	0	0	0	0	0	5	133
390050	0	0	5	202	2	12	25	169	5	58
400060	0	0	0	0	0	0	0	0	0	0
400080	2	600	1	13	0	0	8	108	0	0
900060	0	0	0	0	0	0	0	0	2	22
900080	2	882	0	0	2	12	5	98	9	217
8461100060	0	0	0	0	0	0	0	0	0	0
100080	0	0	0	0	0	0	0	0	0	0
200010	0	0	0	0	0	0	0	0	0	0
200090	0	0	0	0	0	0	0	0	0	0
300060	0	0	0	0	0	0	0	0	0	0
300080	0	0	0	0	0	0	3	14	0	0
401020	0	0	0	0	0	0	0	0	0	0
401030	0	0	0	0	0	0	0	0	0	0
401040	0	0	0	0	0	0	0	0	0	0
401060	0	0	0	0	0	0	0	0	4	1825
405050	0	0	0	0	0	0	0	0	0	0
405070	0	0	0	0	0	0	0	0	0	0
500050	0	0	0	0	9	52	0	0	0	0
500090	0	0	1	31	8	29	1	18	37	162
9000000001	0	0	0	0	3	78	0	0	0	0
9800000001	8	50	7	148	20	109	19	202	14	737
9900000001	608	460	14	6	56577	4173	17	22	4120	967
Month Tot	626	3064	75	4697	57315	14670	149	5685	4655	8931
Y-T-D Tot	626	3064	75	4697	57315	14670	149	5685	4655	8931
NC YTD Tot	2	1028	9	2873	152	5853	16	2345	62	1951

Please see notes on last page of the metal forming section.

U.S. IMPORTS
Metal Forming Machine Tools, Machine Tool Totals and Other Manufacturing Technology
January 91

RELEASED: April 3, 1991

Metal Forming Machine Tools		TOTAL YTD UNITS	TOTAL YTD $000	TOTAL MO. UNITS	TOTAL MO. $000
8454300010	Die casting machines	22	1144	22	1144
8462100030	Headers and upsetters, including cold headers	8	2034	8	2034
100050	Forging or die stamping machines, and hammers, n.e.c.	51	2994	51	2994
210080	Bending, folding, straight. or flat. mach., incl presses, NC	38	2997	38	2997
290030	Press brakes, non-NC	25	712	25	712
290040	Bending rolls, non-NC	12	299	12	299
290050	Bending, folding, straight., or flat., n.e.c., non-NC	114	2549	114	2549
310080	Shearing machines, NC	2	353	2	353
390050	Shearing machines, non-NC	23	944	23	944
410080	Punching or notching mach., incl. comb. punch & shear, NC	23	3973	23	3973
490050	Punching or notching mach., incl. comb. punch & sh., non-NC	19	428	19	428
910060	Hydraulic presses, NC	3	2084	3	2084
910090	Hydraulic presses, non-NC	22	1084	22	1084
990030	Presses, n.e.c., NC	0	0	0	0
990035	Mechanical transfer presses, non-NC	1	10097	1	10097
990045	Mechanical presses, n.e.c., non-NC	14	285	14	285
990060	Presses, n.e.c., non-NC	32	2686	32	2686
8463100080	Draw benches for bars, tubes, profiles, wire or the like	39	2273	39	2273
200080	Thread rolling machines	4	361	4	361
300080	Machines for working wire	108	5728	108	5728
900080	Metal forming machine tools, n.e.c.	113	4280	113	4280
9800000002	Used or rebuilt machine tools	1478	2791	1478	2791
9900000002	Machine tools valued at less than $3,025	818	237	818	237
	Forming Total			2969	50334
	Y-T-D Forming Total	2969	50334		
	NC Y-T-D Forming Total	66	9407		
	Cutting and Forming Totals:				
	Monthly Total			75340	188905
	Y-T-D Total	75340	188905		
	NC Y-T-D Total	994	92243		

Other Manufacturing Technology		TOTAL YTD		TOTAL MO.	
1000000000	Machine tool parts and accessories	0	46777	0	46777
2000000000	Parts for working rubber or plastics - heading 8477	0	29026	0	29026
2710003070	Quenching or cutting oils	0	39	0	39
8428900010	Industrial robots for lifting, handling, loading or unload	127	2737	127	2737
8431390080	Parts industrial robots, handling and loading - heading 8428	0	12271	0	12271
8456101010	Laser, light or photon beam for working metal, NC	12	2937	12	2937
101020	Laser, light or photon beam for working metal, non-NC	5	2019	5	2019
105000	Laser, light or photon beam for other materials	3	1053	3	1053
201010	Ultrasonic processes for working metal, NC	0	0	0	0
201050	Ultrasonic processes for working metal, non-NC	6	39	6	39
205000	Ultrasonic processes for working other materials	24	142	24	142
8477103000	Injection molding mach., for manufacturing shoes	0	0	0	0
106010	Injection molding mach., for rubber or oth. thermosetting	91	13548	91	13548
106050	Injection molding mach., for thermoplastics	168	15377	168	15377
200005	Extruders; rubber or other thermosetting mat., single screw	2	847	2	847
200015	Extruders; rubber or thermosetting, other incl. multi. screw	27	3062	27	3062
200035	Extruders; thermoplastics, single screw, less than 6.4cm	5	126	5	126
200045	Extruders; thermoplastics, single screw, 6.4cm or greater	22	3072	22	3072
200055	Extruders; thermoplastics, mutli. screw, less than 6.4cm	3	420	3	420
200065	Extruders; thermoplastics, multi. screw, 6.4cm or larger	22	2101	22	2101
300000	Blow molding machines	19	5647	19	5647
400000	Vacuum-molding and other thermoforming machines	2	1140	2	1140
510010	Machines for molding or retreading pneumatic tires	60	913	60	913
510090	Machines for molding or otherwise forming inner tubes	9	307	9	307
590000	Machines for molding or otherwise forming n.e.c.	47	4478	47	4478
800000	Machines for working rubber or plastics n.e.c.	182	20850	182	20850
8479899040	Industrial robots, n.e.c.	230	6202	230	6202
908040	Industrial robot parts	0	2873	0	2873
8537100030	Numerical controls for controlling machine tools	372	2236	372	2236
9024100000	Machines and appliances for testing metals	0	961	0	961
9031100000	Machines for balancing mechanical parts	0	29	0	29
300000	Profile projectors	0	845	0	845
9032810020	Industrial process control instr., hydraulic	9583	212	9583	212
810060	Industrial process control instr., pneumatic	17627	221	17627	221

Note: Product code 1000000000 represents aggregated machine tool parts codes 8466100010 through 8456945000.
Note: "0" in units column with corresponding value means that unit measure is not meaningful.
n.e.c. - Not elsewhere classified.

U.S. IMPORTS
Metal Forming Machine Tools, Machine Tool Totals and Other Manufacturing Technology
January 91

Metal Forming

	Belgium		Brazil		Canada		France		Germany **	
	Units	$000	Units	$000	Units	$000	Units	$000	Units	$000
8454300010	0	0	0	0	2	86	0	0	0	0
8462100030	1	73	0	0	0	0	0	0	2	638
100050	0	0	0	0	4	95	0	0	6	814
210080	0	0	0	0	2	300	0	0	3	567
290030	5	229	0	0	7	305	0	0	0	0
290040	0	0	0	0	9	147	0	0	0	0
290050	0	0	0	0	32	698	0	0	13	333
310080	0	0	0	0	0	0	0	0	0	0
390050	1	26	0	0	3	94	0	0	1	399
410080	0	0	0	0	0	0	0	0	3	964
490050	0	0	0	0	2	8	0	0	2	330
910060	0	0	0	0	0	0	0	0	1	1258
910090	0	0	0	0	8	342	4	13	1	261
990030	0	0	0	0	0	0	0	0	0	0
990035	0	0	0	0	0	0	0	0	0	0
990045	0	0	0	0	0	0	0	0	0	0
990060	0	0	0	0	9	639	0	0	2	16
8463100080	0	0	0	0	0	0	0	0	28	1282
200080	0	0	0	0	0	0	0	0	0	0
300080	6	419	3	39	7	255	0	0	10	711
900080	0	0	0	0	10	52	11	91	17	2021
9800000002	4	107	0	0	63	411	2	174	50	595
9900000002	0	0	0	0	29	20	0	0	11	17
Month Tot	17	854	3	39	187	3451	17	277	150	10207
Y-T-D Tot	17	854	3	39	187	3451	17	277	150	10207
NC YTD Tot	0	0	0	0	2	300	0	0	7	2790
C&F Month	21	1622	59	1015	304	4510	107	2828	617	35253
C&F Y-T-D	21	1622	59	1015	304	4510	107	2828	617	35253
C&F NC YTD	0	0	4	391	11	425	3	291	82	15352

Other Manufacturing Technology

1000000000	0	508	0	72	0	7863	0	1122	0	10910
2000000000	0	58	0	0	0	4181	0	2067	0	13683
2710003070	0	0	0	0	0	2	0	0	0	0
8428900010	1	53	0	0	6	51	0	0	5	285
8431390080	0	0	0	1	0	1630	0	303	0	937
8456101010	0	0	0	0	0	0	0	0	1	675
101020	0	0	0	0	0	0	0	0	4	264
105000	0	0	0	0	1	125	0	0	1	512
201010	0	0	0	0	0	0	0	0	0	0
201050	0	0	0	0	0	0	0	0	0	0
205000	0	0	0	0	0	0	0	0	0	0
8477103000	0	0	0	0	0	0	0	0	0	0
106010	0	0	0	0	1	170	2	344	10	2882
106050	0	0	0	0	23	3325	0	0	50	3735
200005	0	0	0	0	0	0	0	0	1	748
200015	0	0	0	0	1	3	0	0	13	2129
200035	0	0	0	0	5	126	0	0	0	0
200045	0	0	0	0	0	0	0	0	7	2352
200055	0	0	0	0	0	0	0	0	1	411
200065	0	0	0	0	2	151	0	0	3	457
300000	0	0	0	0	9	18	4	2114	2	2970
400000	0	0	0	0	0	0	0	0	1	464
510010	0	0	0	0	1	27	3	378	0	0
510090	0	0	0	0	0	0	0	0	1	90
590000	1	350	0	0	11	650	0	0	4	1205
800000	13	48	0	0	19	138	0	0	57	7455
8479899040	0	0	0	0	1	18	0	0	1	108
908040	0	0	0	0	0	70	0	2	0	1155
8537100030	0	0	0	0	0	0	0	0	0	0
9024100000	0	9	0	0	0	33	0	0	0	13
9031100000	0	0	0	0	0	1	0	0	0	8
300000	0	0	0	0	0	0	0	0	0	183
9032810020	0	0	0	0	2	14	0	0	26	72
810060	0	0	0	0	11164	16	0	0	0	0

Note: Product Code 1000000000 represents aggregated machine tool parts codes 8466100010 through 8466945000.
Note: "0" in units column with corresponding value means that unit measure is not meaningful.

U.S. IMPORTS
Metal Forming Machine Tools, Machine Tool Totals and Other Manufacturing Technology
January 91

Metal Forming

	Italy		Japan		Korea		Singapore		Spain	
	Units	$000	Units	$000	Units	$000	Units	$000	Units	$000
8454300010	11	233	1	65	0	0	0	0	0	0
8462100030	5	1323	0	0	0	0	0	0	0	0
100050	0	0	28	1071	0	0	0	0	0	0
210080	4	536	22	1196	0	0	0	0	0	0
290030	0	0	2	27	0	0	0	0	0	0
290040	0	0	0	0	0	0	0	0	0	0
290050	4	117	47	877	0	0	0	0	1	56
310080	0	0	2	353	0	0	0	0	0	0
390050	1	29	5	263	0	0	0	0	1	27
410080	0	0	20	3008	0	0	0	0	0	0
490050	11	61	2	18	0	0	0	0	0	0
910060	0	0	2	826	0	0	0	0	0	0
910090	2	356	4	4	0	0	0	0	0	0
990030	0	0	0	0	0	0	0	0	0	0
990035	0	0	1	10097	0	0	0	0	0	0
990045	4	45	2	89	0	0	0	0	0	0
990060	3	321	10	1359	0	0	0	0	1	151
8463100080	2	6	9	985	0	0	0	0	0	0
200080	0	0	3	345	0	0	0	0	0	0
300080	3	166	72	3244	0	0	0	0	0	0
900080	5	932	7	185	0	0	0	0	30	337
9800000002	2	43	100	857	0	0	0	0	1	2
9900000002	40	15	105	12	0	0	0	0	10	7
Month Tot	97	4185	444	24881	0	0	0	0	44	579
Y-T-D Tot	97	4185	444	24881	0	0	0	0	44	579
NC YTD Tot	4	536	46	5384	0	0	0	0	0	0
C&F Month	3241	6951	3958	88371	1656	1298	179	1114	368	3034
C&F Y-T-D	3241	6951	3958	88371	1656	1298	179	1114	368	3034
C&F NC YTD	9	1293	500	57914	15	902	8	461	114	767

Other Manufacturing Technology

1000000000	0	1471	0	11626	0	92	0	105	0	142
2000000000	0	1785	0	2955	0	57	0	98	0	3
2710003070	0	0	0	37	0	0	0	0	0	0
8428900010	0	0	100	1246	0	0	0	0	0	0
8431390080	0	86	0	6466	0	0	0	3	0	4
8456101010	0	0	10	1779	0	0	0	0	0	0
101020	0	0	0	0	0	0	0	0	0	0
105000	0	0	0	0	0	0	0	0	0	0
201010	0	0	0	0	0	0	0	0	0	0
201050	0	0	6	39	0	0	0	0	0	0
205000	0	0	1	1	0	0	0	0	0	0
8477103000	0	0	0	0	0	0	0	0	0	0
106010	3	576	39	7134	0	0	0	0	0	0
106050	4	778	64	6013	2	165	0	0	0	0
200005	0	0	0	0	0	0	0	0	0	0
200015	0	0	0	0	0	0	0	0	0	0
200035	0	0	0	0	0	0	0	0	0	0
200045	0	0	2	230	0	0	0	0	0	0
200055	0	0	0	0	0	0	0	0	0	0
200065	0	0	1	1123	0	0	0	0	0	0
300000	0	0	3	513	0	0	0	0	0	0
400000	0	0	1	676	0	0	0	0	0	0
510010	0	0	11	457	0	0	0	0	0	0
510090	0	0	5	153	0	0	0	0	0	0
590000	0	0	14	2052	0	0	0	0	0	0
800000	12	1377	17	6842	2	39	0	0	0	0
8479899040	2	525	185	5095	0	0	0	0	0	0
908040	0	53	0	1036	0	0	0	0	0	0
8537100030	0	0	308	2217	0	0	0	0	0	0
9024100000	0	93	0	118	0	0	0	0	0	0
9031100000	0	0	0	10	0	0	0	0	0	0
300000	0	0	0	395	0	0	0	0	0	0
9032810020	0	0	0	0	1900	13	0	0	0	0
810060	2	12	23	6	0	0	0	0	0	0

Note: Product Code 1000000000 represents aggregated machine tool parts codes 8466100010 through 8466945000.
Note: "0" in units column with corresponding value means that unit measure is not meaningful.

U.S. IMPORTS
Metal Forming Machine Tools, Machine Tool Totals and Other Manufacturing Technology
January 91

Metal Forming

	Sweden		Switzerland		Taiwan		U.K.		All Other	
	Units	$000	Units	$000	Units	$000	Units	$000	Units	$000
8454300010	0	0	1	523	0	0	1	20	6	218
8462100030	0	0	0	0	0	0	0	0	0	0
100050	0	0	3	349	2	85	1	12	7	568
210080	0	0	1	15	0	0	1	186	5	197
290030	0	0	0	0	0	0	0	0	11	151
290040	1	52	0	0	1	24	1	77	0	0
290050	9	274	1	24	3	100	1	31	3	3
310080	0	0	0	0	0	0	0	0	0	0
390050	1	29	0	0	0	0	9	67	1	10
410080	0	0	0	0	0	0	0	0	0	0
490050	0	0	0	0	2	11	0	0	0	0
910060	0	0	0	0	0	0	0	0	0	0
910090	0	0	1	2	0	0	0	0	2	106
990030	0	0	0	0	0	0	0	0	0	0
990035	0	0	0	0	0	0	0	0	0	0
990045	0	0	0	0	1	115	7	35	0	0
990060	1	27	1	10	3	83	2	79	0	0
8463100080	0	0	0	0	0	0	0	0	0	0
200080	0	0	0	0	1	16	0	0	0	0
300080	0	0	3	736	1	73	3	86	0	0
900080	0	0	3	231	2	27	15	198	13	205
9800000002	0	0	73	38	1	2	1180	558	2	6
9900000002	0	0	28	18	532	108	2	5	61	34
Month Tot	12	383	115	1947	549	644	1223	1354	111	1534
Y-T-D Tot	12	383	115	1947	549	644	1223	1354	111	1534
NC YTD Tot	0	0	1	15	0	0	1	186	5	197
C&F Month	638	3447	190	6644	57864	15314	1372	7039	4766	10466
C&F Y-T-D	638	3447	190	6644	57864	15314	1372	7039	4766	10466
C&F NC YTD	2	1028	10	2888	152	5853	17	2531	67	2148

Other Manufacturing Technology

1000000000	0	723	0	2884	0	1911	0	3644	0	3703
2000000000	0	55	0	1249	0	479	0	849	0	1506
2710003070	0	0	0	0	0	0	0	0	0	0
8428900010	9	177	0	0	0	0	0	0	6	924
8431390080	0	255	0	314	0	183	0	1169	0	919
8456101010	0	0	0	0	0	0	1	483	0	0
101020	0	0	0	0	0	0	0	0	1	1755
105000	0	0	0	0	0	0	0	0	1	416
201010	0	0	0	0	0	0	0	0	0	0
201050	0	0	0	0	0	0	0	0	0	0
205000	0	0	4	7	0	0	18	109	1	24
8477103000	0	0	0	0	0	0	0	0	0	0
106010	0	0	23	1275	8	332	1	67	4	768
106050	0	0	3	390	8	285	4	52	10	635
200005	0	0	0	0	0	0	1	99	0	0
200015	0	0	0	0	5	111	0	0	8	819
200035	0	0	0	0	0	0	0	0	0	0
200045	0	0	0	0	0	0	12	94	1	397
200055	0	0	0	0	1	8	0	0	1	2
200065	0	0	0	0	13	340	0	0	3	30
300000	0	0	0	0	0	0	0	0	1	33
400000	0	0	0	0	0	0	0	0	0	0
510010	0	0	0	0	0	0	0	0	45	52
510090	0	0	0	0	2	50	1	14	0	0
590000	0	0	9	180	2	13	0	0	6	28
800000	0	0	6	1620	15	983	4	41	37	2309
8479899040	3	136	0	0	0	0	1	26	37	294
908040	0	44	0	158	0	0	0	208	0	147
8537100030	18	11	0	0	28	3	0	0	18	6
9024100000	0	541	0	37	0	0	0	107	0	9
9031100000	0	8	0	0	0	0	0	0	0	2
300000	0	0	0	0	0	0	0	198	0	69
9032810020	0	0	264	18	0	0	0	0	7391	95
810060	5075	128	0	0	1056	3	5	2	302	54

Note: Product Code 1000000000 represents aggregated machine tool parts codes 8466100010 through 8466945000.
Note: "0" in units column with corresponding value means that unit measure is not meaningful.

U.S. IMPORTS
Metal Cutting and Metal Forming Machine Tool Totals
January 91

	METAL CUTTING		METAL FORMING		TOTAL	
	UNITS	$000	UNITS	$000	UNITS	$000
EUROPE						
Austria	311	802	5	90	316	891
Bulgaria	0	0	0	0	0	0
Czechoslovakia	20	118	0	0	20	118
Denmark	67	238	14	158	81	396
Finland	36	23	5	197	41	220
Hungary	3	73	0	0	3	73
Ireland	0	0	0	0	0	0
Luxembourg	0	0	0	0	0	0
Netherlands	220	2150	1	97	221	2247
Norway	0	0	3	55	3	55
Poland	8	233	0	0	8	233
Portugal	0	0	0	0	0	0
Romania	1	5	0	0	1	5
USSR	5	151	0	0	5	151
Yugoslavia	85	391	3	543	88	934
Oth Europe	10	116	0	0	10	116
TOTAL	5645	51330	1706	20926	7351	72256
NORTH AND CENTRAL AMERICA						
Barbados	0	0	0	0	0	0
Dominican Rep	0	0	0	0	0	0
Mexico	1	7	9	222	10	229
Oth N & C Am.	9	53	0	0	9	53
TOTAL	127	1119	196	3674	323	4792
SOUTH AMERICA						
Argentina	0	0	0	0	0	0
Chile	0	0	0	0	0	0
Colombia	0	0	0	0	0	0
Paraguay	0	0	0	0	0	0
Peru	0	0	0	0	0	0
Uruguay	0	0	0	0	0	0
Venezuela	0	0	0	0	0	0
Oth South Am.	0	0	0	0	0	0
TOTAL	56	976	3	39	59	1015
OCEANIA						
Australia	26	171	6	76	32	246
New Zealand	0	0	0	0	0	0
Oth Oceania	0	0	0	0	0	0
TOTAL	26	171	6	76	32	246

U.S. IMPORTS
Metal Cutting and Metal Forming Machine Tool Totals
January 91

	METAL CUTTING		METAL FORMING		TOTAL	
	UNITS	$000	UNITS	$000	UNITS	$000
ASIA						
China	3808	2467	2	19	3810	2486
Hong Kong	1	87	15	4	16	91
India	7	28	2	31	9	59
Indonesia	0	0	0	0	0	0
Iran	0	0	0	0	0	0
Iraq	0	0	0	0	0	0
Israel	1	2	1	14	2	17
Malaysia	0	0	0	0	0	0
Pakistan	0	0	0	0	0	0
Philippines	1	4	0	0	1	4
Thailand	34	1263	0	0	34	1263
Oth Asia	0	0	0	0	0	0
TOTAL	66516	84424	1013	25592	67529	110016
AFRICA						
Ghana	0	0	0	0	0	0
Kenya	0	0	0	0	0	0
Niger	0	0	0	0	0	0
South Africa	1	550	45	29	46	579
Swaziland	0	0	0	0	0	0
Oth Africa	0	0	0	0	0	0
TOTAL	1	550	45	29	46	579

Note: Region totals include top countries detailed by product as well as countries listed above.
** West and East Germany are combined.
Cutting Section Notes:
Total for Metal Cutting and Metal Forming appears in Metal Forming Section.
Product Code 9000000001, Metal cutting machine tools, n.e.c., represents the total of codes: 8461900040 and 8461900080.
n.e.c. - Not elsewhere classified.